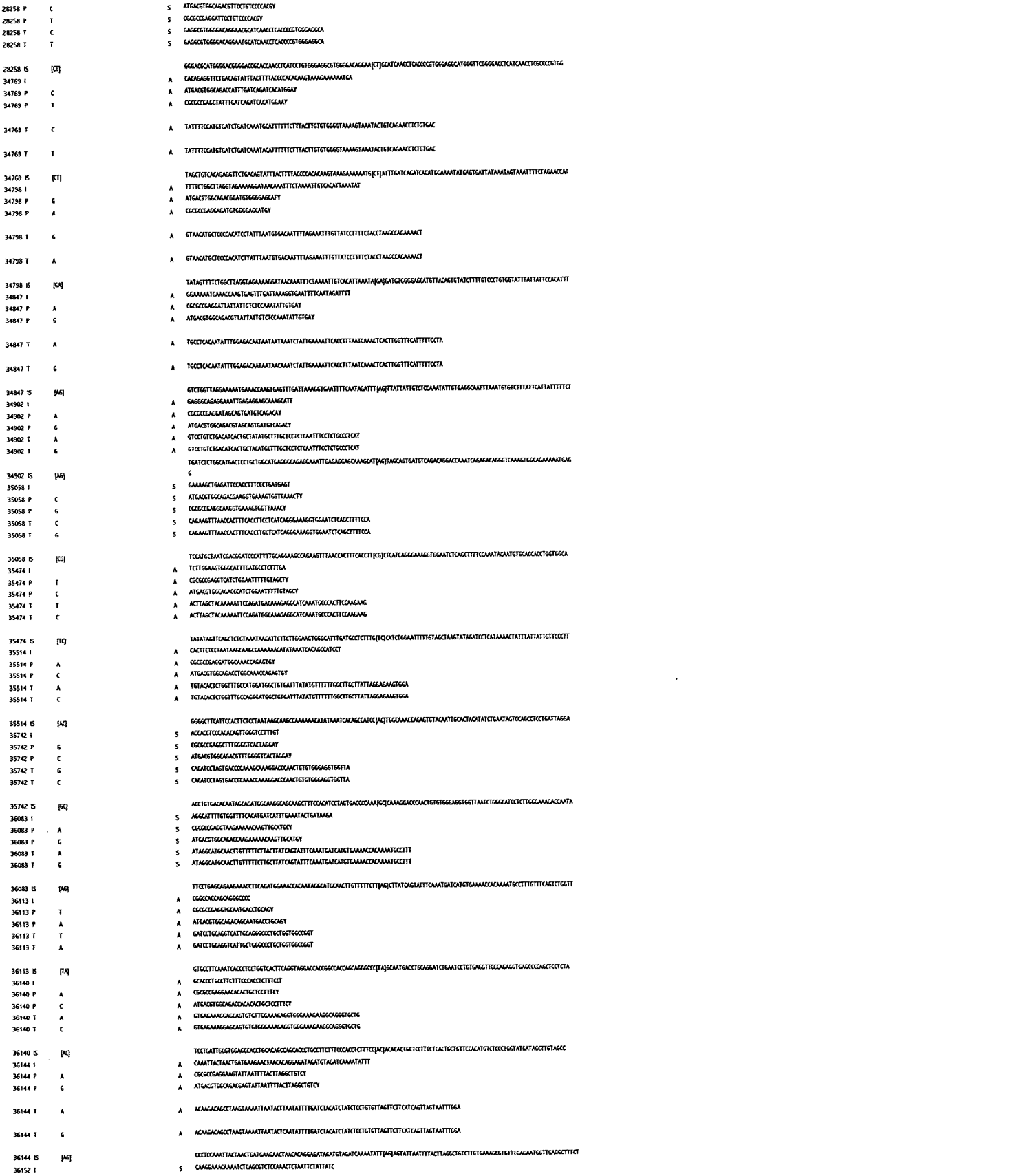
FIGURE 129F



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FIGURE 129F

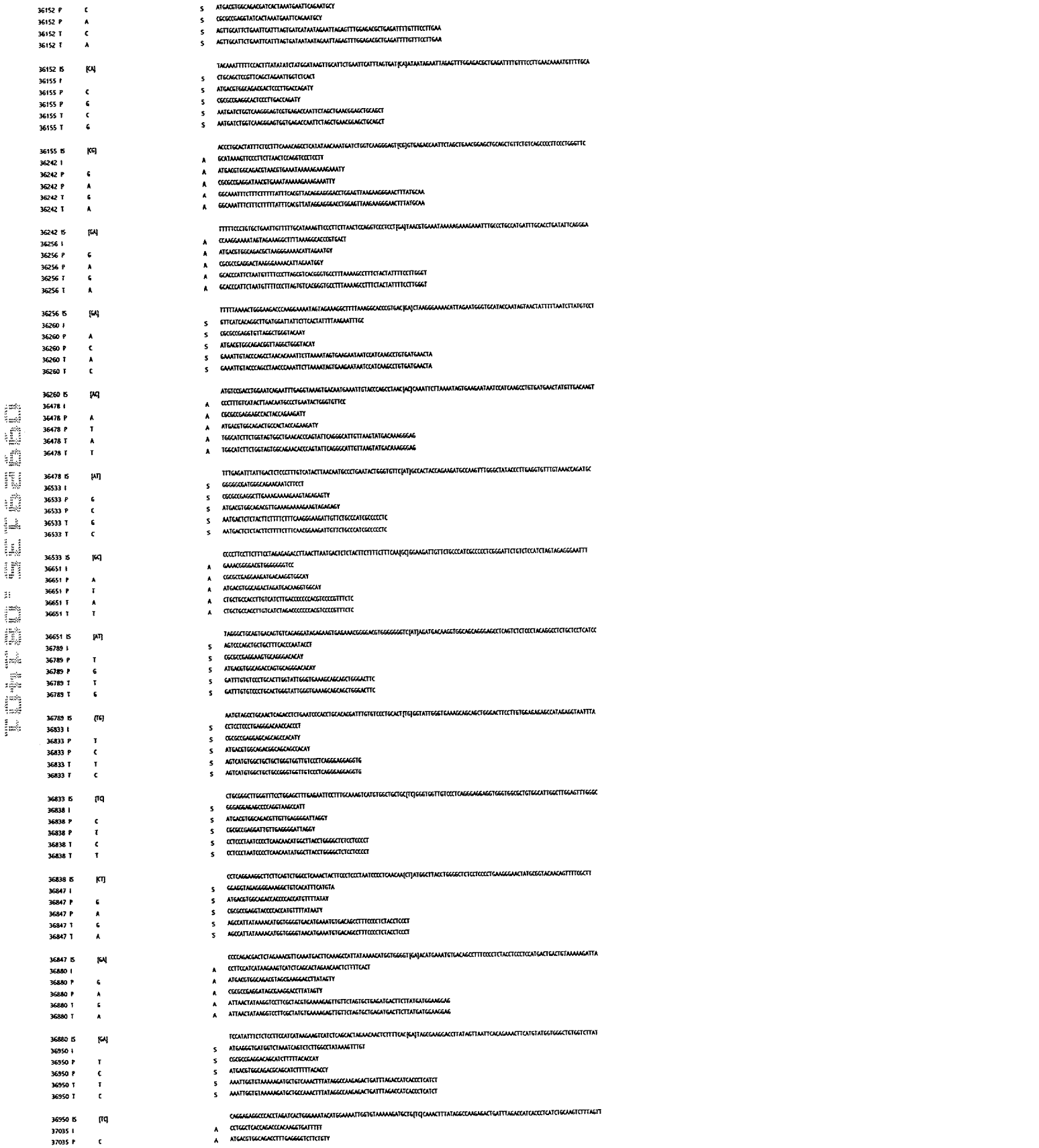
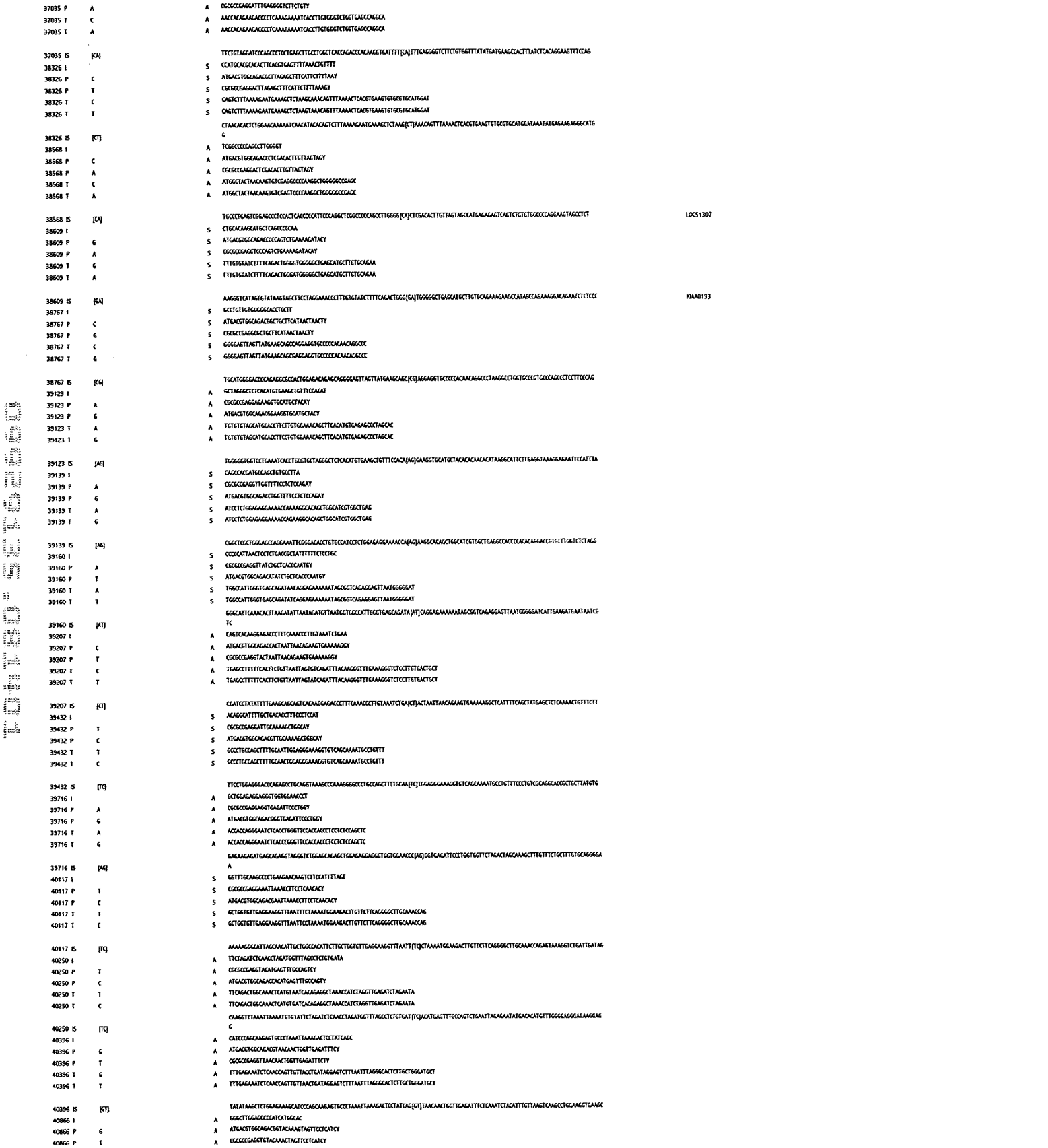


FIGURE 129F


37035 P A A CGCGCCGAGGATTTGAGGGGTCTTCTGTY
37035 T C A AACCACAGAAGACCCCTCAAAGAAAATCACCTTGTGGGTCTGGTGAGCCAGGCA
37035 T A A AACCACAGAAGACCCCTCAAATAAAATCACCTTGTGGGTCTGGTGAGCCAGGCA
37035 IS [KA] TTCTGTAGGATCCCAGCCCTCCTGAGCTTGCCTGGCTCACCAGACCCACAAGGTGATTTT[CA]TTTGAGGGGTCTTCTGTGGTTTATATGATGAAGCCACTTTATCTCACAGGAAGTTTCCAG
38326 I S CCATGCACGCACACTTCACGTGAGTTTTAAACTGTTTT
38326 P C S ATGACGTGGCAGACGCTTAGAGCTTTCATTCTTTTAAY
38326 P T S CGCGCCGAGGACTTAGAGCTTTCATTCTTTTAAGY
38326 T C S CAGTCTTTAAAAGAATGAAAGCTCTAAGCAAACAGTTTAAAACTCACGTGAAGTGTGCGTGCATGGAT
38326 T T S CAGTCTTTAAAAGAATGAAAGCTCTAAGTAAACAGTTTAAAACTCACGTGAAGTGTGCGTGCATGGAT
38326 IS [CT] CTAACACACTCTGGAACAAAAATCAACATACACAGTCTTTAAAAGAATGAAAGCTCTAAG[CT]AAACAGTTTAAAACTCACGTGAAGTGTGCGTGCATGGATAAATATGAGAAGAGGGCATG G
38568 I A TCGGCCCCCAGCCTTGGGGT
38568 P C A ATGACGTGGCAGACCCTCGACACTTGTTAGTAGY
38568 P A A CGCGCCGAGGACTCGACACTTGTTAGTAGY
38568 T C A ATGGCTACTAACAAGTGTCGAGGCCCCAAGGCTGGGGGCCGAGC
38568 T A A ATGGCTACTAACAAGTGTCGAGTCCCCAAGGCTGGGGGCCGAGC
38568 IS [CA] TGCCCTGAGTCGGAGCCCTCCACTCACCCCATTCCCAGGCTCGGCCCCCAGCCTTGGGG[CA]CTCGACACTTGTTAGTAGCCATGAGAGAGTCAGTCTGTGTGGCCCCAGCAAGTAGCCTCT LOC51307
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38609 P G S ATGACGTGGCAGACCCCAGTCTGAAAAGATACY
38609 P A S CGCGCCGAGGTCCCAGTCTGAAAAGATACAY
38609 T G S TTTGTGTATCTTTTCAGACTGGGGTGGGGGCTGAGCATGCTTGTGCAGAA
38609 T A S TTTGTGTATCTTTTCAGACTGGGATGGGGGCTGAGCATGCTTGTGCAGAA
38609 IS [GA] AAGGGTCATAGTGTATAAGTAGCTCCTAGGAAACCCTTGTGTATCTTTTCAGACTGGG[GA]TGGGGGCTGAGCATGCTTGTGCAGAAAGAAGCCATAGCCAGAAAGGACAGAATCTCTCCC KIAA0193
38767 I S GCCTGTTGTGGGGGCACCTCCTT
38767 P C S ATGACGTGGCAGACGGCTGCTTCATAACTAACTY
38767 P G S CGCGCCGAGGGCGCTGCTTCATAACTAACTY
38767 T C S GGGGAGTTAGTTATGAAGCAGCCAGGAAGCTGCCCCCACAACAGGCCC
38767 T G S GGGGAGTTAGTTATGAAGCAGCCAGGAAGCTGCCCCCACAACAGGCCC
38767 IS [CG] TGCATGGGGAACCCCAGAGGCGCCACTGGAGACAGAGCAGGGGAGTTAGTTATGAAGCAGC[CG]AGGAGGTGCCCCCACAACAGGCCCTAAGGCCTGGTGCCCGTGCCCAGCCCTCCTTCCCAG
39123 I A GCTAGGGCTCTCACATGTGAAGCTGTTTCCACAT
39123 P A A CGCGCCGAGGAGAAGGTGCATGCTACAY
39123 P G A ATGACGTGGCAGACGGAAGGTGCATGCTACY
39123 T A A TGTGTGTAGCATGCACCTTCTTGTGGAAACAGCTTCACATGTGAGAGCCCTAGCAC
39123 T G A TGTGTGTAGCATGCACCTTCCTGTGGAAACAGCTTCACATGTGAGAGCCCTAGCAC
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39139 I S CAGCCACGATGCCAGCTGTGCCTTA
39139 P A S CGCGCCGAGGTTGGTTTTCCTCTCCAGAY
39139 P G S ATGACGTGGCAGACCTGGTTTTCCTCTCCAGAY
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39139 T G S ATCCTCTGGAGAGGAAAACCAGAAGGCACAGCTGGCATCGTGGCTGAG
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39160 P T S ATGACGTGGCAGACATATCTGCTCACCCAATGY
39160 T A S TGGCCATTGGGTCAGCAGATAACAGGAGAAAAAATAGCGGTCAGAGGAGTTAATGGGGGAT
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39160 IS [AT] GGGCATTCAAACACTTAAGATATTAATAGATGTTAATGGTGGCCATTGGGTGAGCAGATA[AT]CAGGAGAAAAATAGCGGTCAGAGGAGTTAATGGGGGATCATTGAAGATGAATAATCG TC
39207 I A CAGTCACAAGGAGACCCTTTCAAACCCTTGTAAATCTGAA
39207 P C A ATGACGTGGCAGACCACTAATTAACAGAAGTGAAAAAGGY
39207 P T A CGCGCCGAGGTACTAATTAACAGAAGTGAAAAAGGY
39207 T C A TGAGCCTTTTTCACTTCTGTTAATTAGTGTCAGATTTACAAGGGTTTGAAAGGGTCTCCTTGTGACTGCT
39207 T T A TGAGCCTTTTTCACTTCTGTTAATTAGTATCAGATTTACAAGGGTTTGAAAGGGTCTCCTTGTGACTGCT
39207 IS [CT] CGATCCTATATTTTGAAGCAGCAGTCACAAGGAGACCCTTTCAAACCCTTGTAAATCTGA[CT]ACTAATTAACAGAAGTGAAAAAGGCTCATTTTCAGCTATGAGCTCTCAAAACTGTTTCTT
39432 I S ACAGGCATTTTGCTGACACCTTCCCTCCAT
39432 P T S CGCGCCGAGGATTGCAAAAGCTGGCAY
39432 P C S ATGACGTGGCAGACGTTGCAAAAGCTGGCAY
39432 T T S GCCCTGCCAGCTTTTGCAACTGGAGGGAAAGGTGTCAGCAAAATGCCTGTTT
39432 T C S GCCCTGCCAGCTTTTGCAACTGGAGGGAAAGGTGTCAGCAAAATGCCTGTTT
39432 IS [TC] TTCCTGGAGGGACCCAGAGCCTGCAGGTAAAGCCCAAAGGGGCCCTGCCAGCTTTTGCAA[TC]TGGAGGGAAAGGTGTCAGCAAAATGCCTGTTTCCCTGTCCGCAGGCACCCTCGCTTATGTG
39716 I A GCTGGAGAGGAGGGTGGTGGAACCCT
39716 P A A CGCGCCGAGGAGGTGAGATTCCCTGGY
39716 P G A ATGACGTGGCAGACGGGTGAGATTCCCTGGY
39716 T A A ACCACCAGGGAATCTCACCTGGGTTCCACCACCTCCTCTCCAGCTC
39716 T G A ACCACCAGGGAATCTCACCCGGGTTCCACCACCTCCTCTCCAGCTC
39716 IS [AG] CAGAACAGATGAGCAGAGGTAGGGTCTGGAGCAGAGCTGGAGAGGAGGGTGGTGGAACCC[AG]GGTGAGATTCCCTGGTGGTCTAGACTAGCAAAGCTTTGTTTCTGCTTTGTGCAGGGGA A
39717 I S GGTTTGCAAGCCCCTGAAGAACAAGTCTTCCATTTTAGT
40117 P T S CGCGCCGAGGAAATTAAACCTTCCTCAACACY
40117 P C S ATGACGTGGCAGACGAATTAAACCTTCCTCAACACY
40117 T T S GCTGGTGTTGAGGAAGGTTTAATTCCTAAAATGGAAGACTTGTTCTTCAGGGGCTTGCAAACCAG
40117 T C S GCTGGTGTTGAGGAAGGTTTAATTCCTAAAATGGAAGACTTGTTCTTCAGGGGCTTGCAAACCAG
40117 IS [TC] AAAAAGGGCATTAGCAACATTGCTGGCCACATTCTTGCTGGTGTTCAGGAAGGTTTAATT[TC]CTAAAATGGAAGACTTGTTCTTCAGGGGCTTGCAAACCAGAGTAAAGGTCTGATTGATAG
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40250 P T A CGCGCCGAGGTACATGAGTTTGCCAGTCY
40250 P C A ATGACGTGGCAGACCACATGAGTTTGCCAGTY
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40250 T C A TTCAGACTGGCAAACTCATGTGATCACAGAGGCTAAACCATCTAGGTTGAGATCTAGAATA
40250 IS [TC] CAAGGTTTAAATTAAAATGTGTATTCTAGATCTCAACCTAGATGGTTTAGCCTCTGTGAT[TC]ACATGAGTTTGCCAGTCTGAATTAGAGAATATGACACATGTTTGGGGAGGGAGAAGGAG G
40396 I A CATCCCAGCAAGAGTGCCCTAAATTAAAGACTCCTATCAGC
40396 P G A ATGACGTGGCAGACGTAACAACTGGTTGAGATTTCY
40396 P T A CGCGCCGAGGTTAACAACTGGTTGAGATTTCTY
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40396 T T A TTTGAGAAATCTCAACCAGTTGTTAACTGATAGGAGTCTTTAATTTAGGGCACTCTTGCTGGGATGCT
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40866 P T A CGCGCCGAGGTGTACAAAGTAGTTCCTCATCY

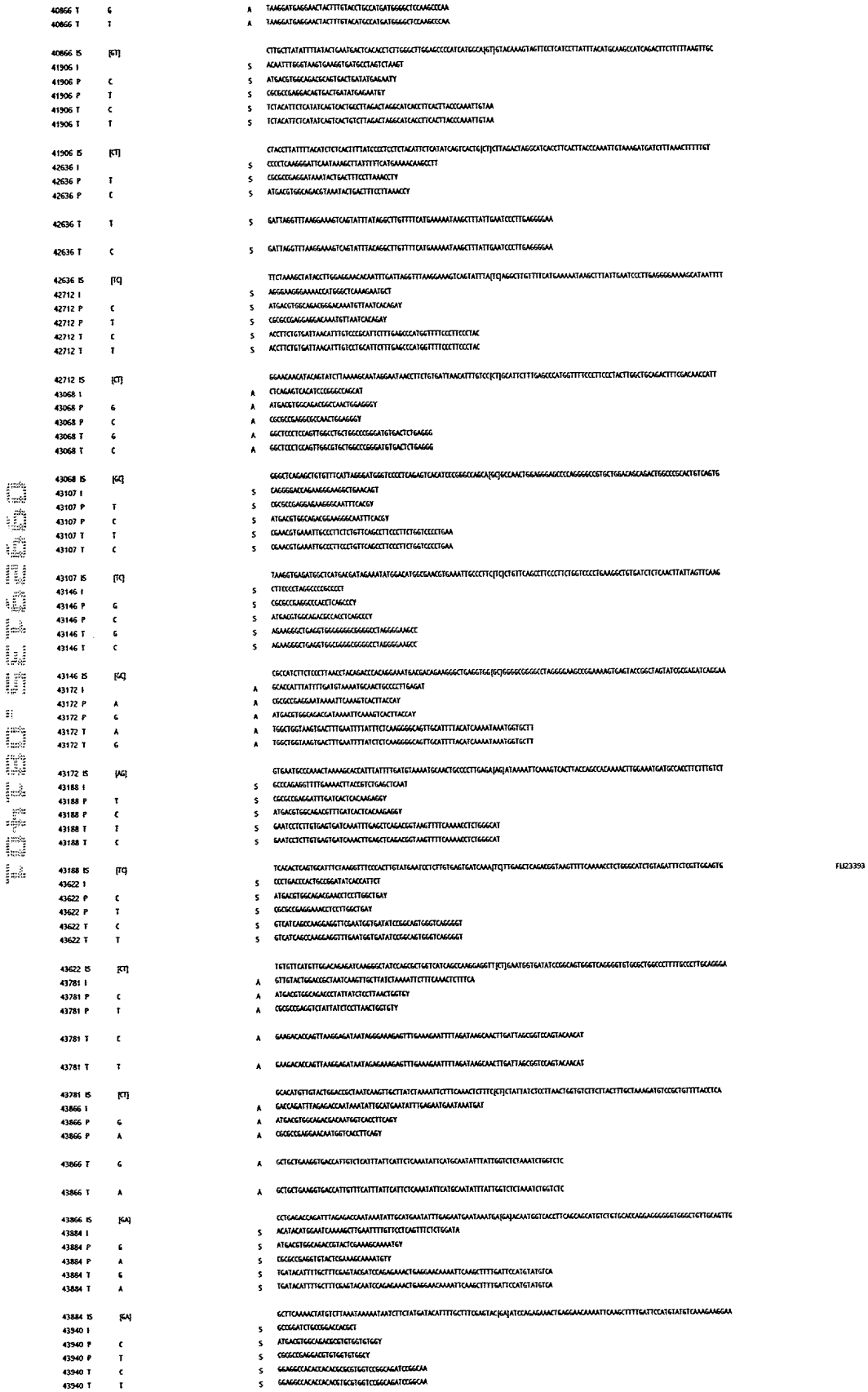
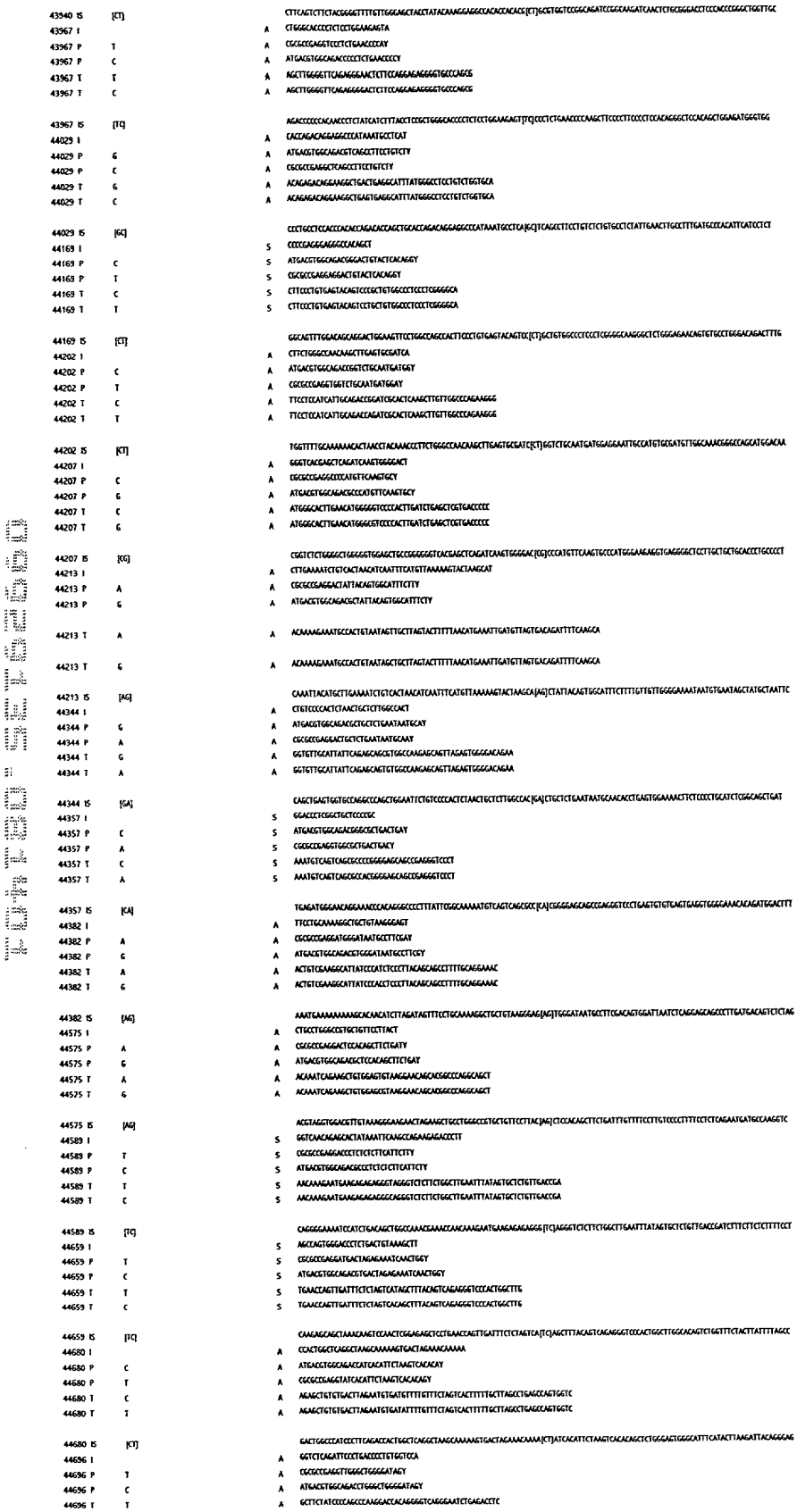

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41906 I S ACAATTTGGGTAAGTGAAGGTGATGCCTAGTCTAAGT
41906 P C S ATGACGTGGCAGACGCAGTGACTGATATGAGAATY
41906 P T S CGCGCCGAGGACAGTGACTGATATGAGAATGY
41906 T C S TCTACATTCTCATATCAGTCACTGCTTAGACTAGGCATCACCTTCACTTACCCAAATTGTAA
41906 T T S TCTACATTCTCATATCAGTCACTGTCTTAGACTAGGCATCACCTTCACTTACCCAAATTGTAA
41906 IS [CT] CTACCTTATTTTACATCTCTCACTTTTATCCCCTCCTCTACATTCTCATATCAGTCACTG[CT]CTTAGACTAGGCATCACCTTCACTTACCCAAATTGTAAGATGATCTTTAAACTTTTTGT
42636 I S CCCCTCAAGGGATTCAATAAAGCTTATTTTTCATGAAAACAAGCCTT
42636 P T S CGCGCCGAGGATAAATACTGACTTTCCTTAAACCTY
42636 P C S ATGACGTGGCAGACGTAAATACTGACTTTCCTTAAACCY
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42636 T C S GATTAGGTTTAAGGAAAGTCAGTATTTACAGGCTTGTTTTCATGAAAAATAAGCTTTATTGAATCCCTTGAGGGGAA
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43068 I A CTCAGAGTCACATCCCGGGCCAGCAT
43068 P G A ATGACGTGGCAGACGGCCAACTGGAGGGY
43068 P C A CGCGCCGAGGAGCCAACTGGAGGGY
43068 T G A GGCTCCCTCCAGTTGGCCTGCTGGCCCGGGATGTGACTCTGAGGG
43068 T C A GGCTCCCTCCAGTTGGCCGTGCTGGCCCGGGATGTGACTCTGAGGG
43068 IS [GC] GGGCTCAGAGCTGTGTTTCATTAGGGATGGGTCCCCTCAGAGTCACATCCCGGGCCAGCA[GC]GCCAACTGGAGGGAGCCCAGGGGCCGTGCTGGACAGCAGACTGCCCCGCACTGTCAGTG
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43107 P T S CGCGCCGAGGAGAAGGGCAATTTCACGY
43107 P C S ATGACGTGGCAGACGGAAAGGCAATTTCACGY
43107 T T S CGAACGTGAAATTGCCCTTCTCTGTTCAGCCTTCCCTTCTGGTCCCCTGAA
43107 T C S CGAACGTGAAATTGCCCTTCCTGTTCAGCCTTCCCTTCTGGTCCCCTGAA
43107 IS [TC] TAAGGTGAGATGGCTCATGACGATAGAAATATGGACATGGCGAACGTGAAATTGCCCTTC[TC]CTGTTCAGCCTTCCCTTCTGGTCCCCTGAAGGCTGTGATCTCTCAACTTATTAGTTCAAG
43146 I S CTTCCCCTAGGCCCCGCCCCT
43146 P G S CGCGCCGAGGCCCAACTCAGCCCY
43146 P C S ATGACGTGGCAGACGCCACCTCAGCCCY
43146 T G S AGAAGGGCTGAGGTGGCGGGGCGGGGCCTAGGGGAAGCC
43146 T C S AGAAGGGCTGAGGTGGCGGGGCGGGGCCTAGGGGAAGCC
43146 IS [GC] CGCCATCTTCTCCCTTAACCTACAGACCCACAGGAAATGACGACAGAAGGGCTGAGGTGG[GC]GGGGCGGGGCCTAGGGGAAGCCGGAAAAGTGAGTACCGGCTAGTATCGCGAAGATCAGGAA
43172 I A GCACCATTTATTTTGATGTAAAATGCAACTGCCCCTTGAGAT
43172 P A A CGCGCCGAGGAATAAAATTCAAAGTCACTTACCAY
43172 P G A ATGACGTGGCAGACGATAAAATTCAAAGTCACTTACCAY
43172 T A A TGGCTGGTAAGTGACTTTGAATTTTATTTCTCAAGGGGCAGTTGCATTTTACATCAAAATAAATGGTGCTT
43172 T G A TGGCTGGTAAGTGACTTTGAATTTTATTTCTCAAGGGGCAGTTGCATTTTACATCAAAATAAATGGTGCTT
43172 IS [AG] GTGAATGCCCAAACTAAAAGCACCATTTATTTTGATGTAAAATGCAACTGCCCCTTGAGA[AG]ATAAAATTCAAAGTCACTTACCAGCCACAAAACTTGGAAATGATGCCACCTTCTTTGTCT
43188 I S GCCCAGAGGTTTTGAAAACTTACCGTCTGAGCTCAAT
43188 P T S CGCGCCGAGGATTTGATCACTCACAAGAGGY
43188 P C S ATGACGTGGCAGACGTTTGATCACTCACAAGAGGY
43188 T T S GAATCCTCTTGTGAGTGATCAAACTTGAGCTCAGACGGTAAGTTTTCAAAACCTCTGGGCAT
43188 T C S GAATCCTCTTGTGAGTGATCAAACTTGAGCTCAGACGGTAAGTTTTCAAAACCTCTGGGCAT
43188 IS [TC] TCACACTCAGTGCATTTCTAAGGTTTCCCACTTGTATGAATCCTCTTGTGAGTGATCAAA[TC]TTGAGCTCAGACGGTAAGTTTTCAAAACCTCTGGGCATCTGTAGATTTCTCGTTGGAGTG FLI23393
43622 I S CCCTGACCCACTGCCGGATATCACCATTCT
43622 P C S ATGACGTGGCAGACGAACCTCCTTGGCTGAY
43622 P T S CGCGCCGAGGAAACCTCCTTGGCTGAY
43622 T C S GTCATCAGCCAAGGAGGTTCGAATGGTGATATCCGGCAGTGGGTCAGGGGT
43622 T T S GTCATCAGCCAAGGAGGTTTGAATGGTGATATCCGGCAGTGGGTCAGGGGT
43622 IS [CT] TGTGTTCATGTTGGACAGAGATCAAGGGCTATCCAGCGCTGGTCATCAGCCAAGGAGGTT[CT]GAATGGTGATATCCGGCAGTGGGTCAGGGGTGTGGGCTGGCCCTTTTGCCCTTGCAGGGA
43781 I A GTTGTACTGGACCGCTAATCAAGTTGCTTATCTAAAATTCTTTCAAACTCTTTCA
43781 P C A ATGACGTGGCAGACCCTATTATCTCCTTAACTGGTGY
43781 P T A CGCGCCGAGGTCTATTATCTCCTTAACTGGTGTY
43781 T C A GAAGACACCAGTTAAGGAGATAATAGGGAAAGAGTTTGAAAGAATTTTAGATAAGCAACTTGATTAGCGGTCCAGTACAACAT
43781 T T A GAAGACACCAGTTAAGGAGATAATAGACAAAGAGTTTGAAAGAATTTTAGATAAGCAACTTGATTAGCGGTCCAGTACAACAT
43781 IS [CT] GCACATGTTGTACTGGACCGCTAATCAAGTTGCTTATCTAAAATTCTTTCAAACTCTTTC[CT]CTATTATCTCCTTAACTGGTGTCTTCTTACTTTGCTAAAGATGTCCGCTGTTTTACCTCA
43866 I A GACAGATTTAGAGACCAATAAATATTGCATGAATATTTGAGAATGAATAAATGA
43866 P G A ATGACGTGGCAGACGACAATGGTCACCTTCAGY
43866 P A A CGCGCCGAGGAACAATGGTCACCTTCAGY
43866 T G A GCTGCTGAAGGTGACCATTGTCTCATTTATTCATTCTCAAATATTCATGCAATATTTATTGGTCTCTAAATCTGGTCTC
43866 T A A GCTGCTGAAGGTGACCATTGTTTCATTTATTCATTCTCAAATATTCATGCAATATTTATTGGTCTCTAAATCTGGTCTC
43866 IS [GA] CCTGAGACCAGATTTAGAGACCAATAAATATTGCATGAATATTTGAGAATGAATAAATGA[GA]ACAATGGTCACCTTCAGCAGCATGTCTGTGCACCAGGAGGGGGGTGGGCTGTTGCAGTTG
43884 I S ACATACATGGAATCAAAAGCTTGAATTTTGTTCCTCAGTTTCTCTGGATA
43884 P G S ATGACGTGGCAGACCGTACTCGAAAGCAAAATGY
43884 P A S CGCGCCGAGGTGTACTCGAAAGCAAAATGTY
43884 T G S TGATACATTTTGCTTTCGAGTACGATCCAGAGAAACTGAGGAACAAAATTCAAGCTTTTGATTCCATGTATGTCA
43884 T A S TGATACATTTTGCTTTCGAGTACGATCCAGAGAAACTGAGGAACAAAATTCAAGCTTTTGATTCCATGTATGTCA
43884 IS [GA] GCTTCAAAACTATGTCTTAAATAAAAATAATCTTCTATGATACATTTTGCTTTCGAGTAC[GA]ATCCAGAGAAACTGAGGAACAAAATTCAAGCTTTTGATTCCATGTATGTCAAAGAAGGAA
43940 I S GCCGGATCTGCCGGACCACGCT
43940 P C S ATGACGTGGCAGACGCGTGTGGTGTGGY
43940 P T S CGGCCGGAGGACGTGTGGTGTGGCY
43940 T C S GGAGGCCACACCACACGCGGCGTGGTCCGGCAGATCCGGCAA
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FIGURE 129F



Docket No. 10020.0001.PCUS.00

FIGURE 129F

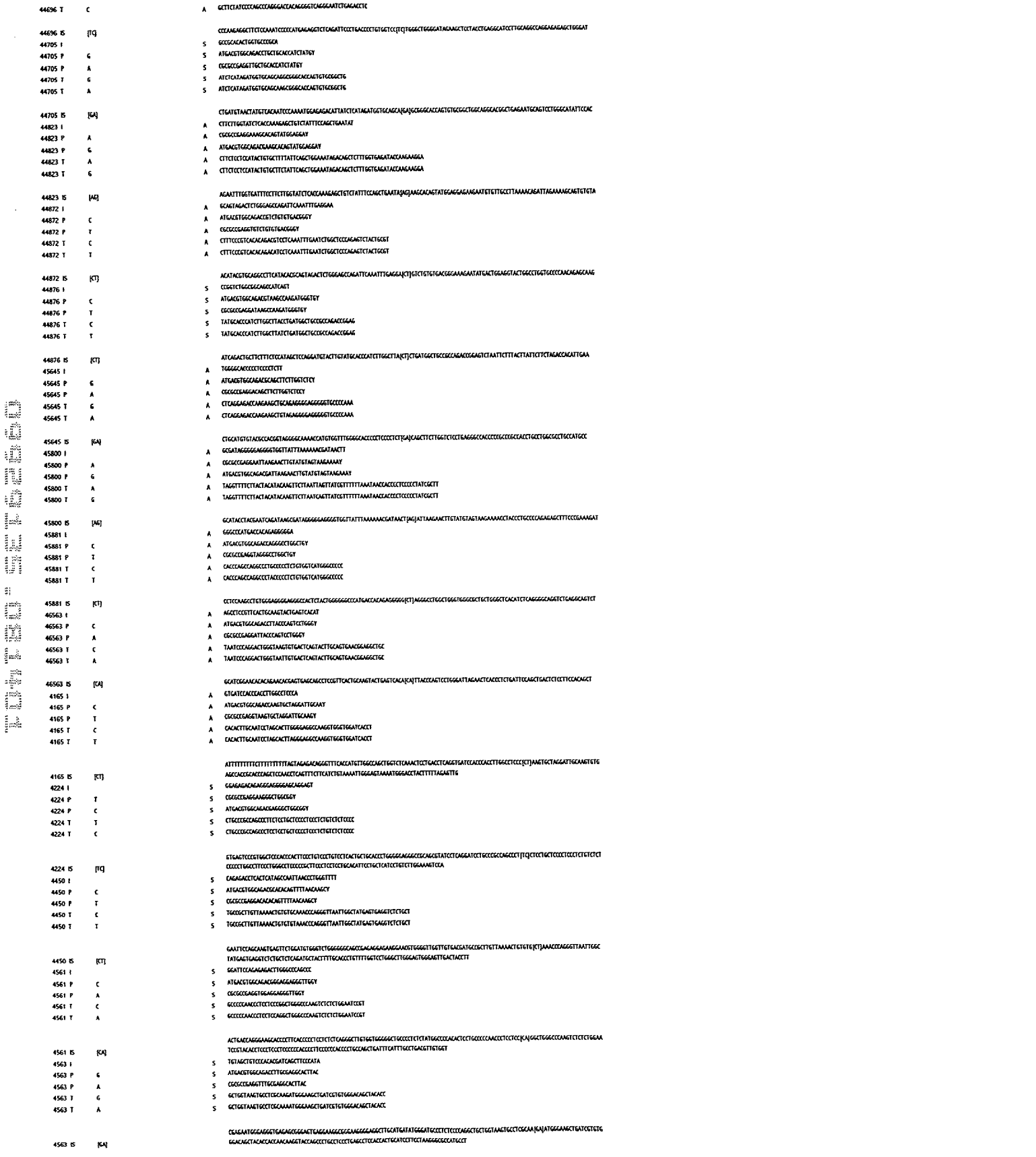


FIGURE 129F

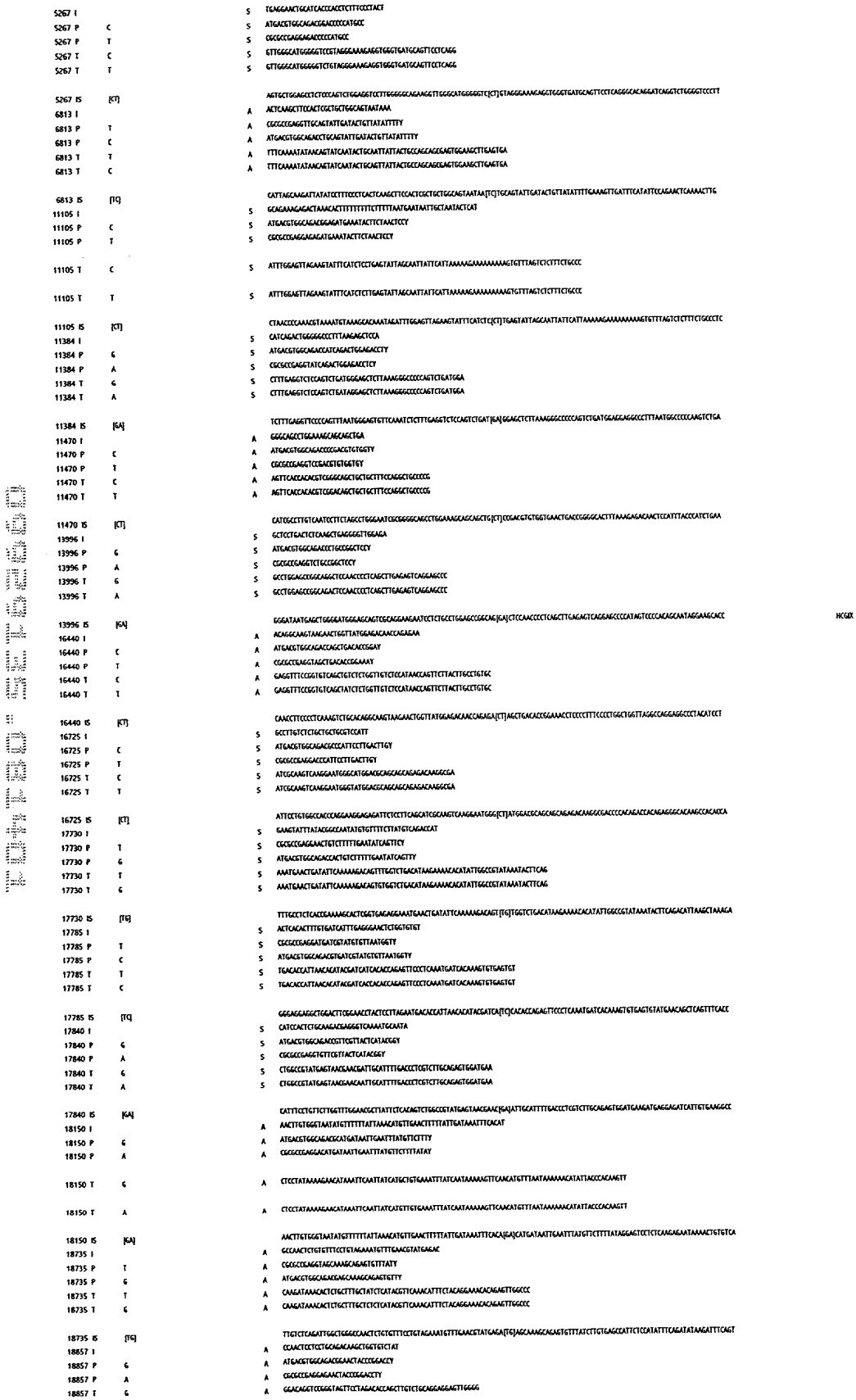


FIGURE 129F

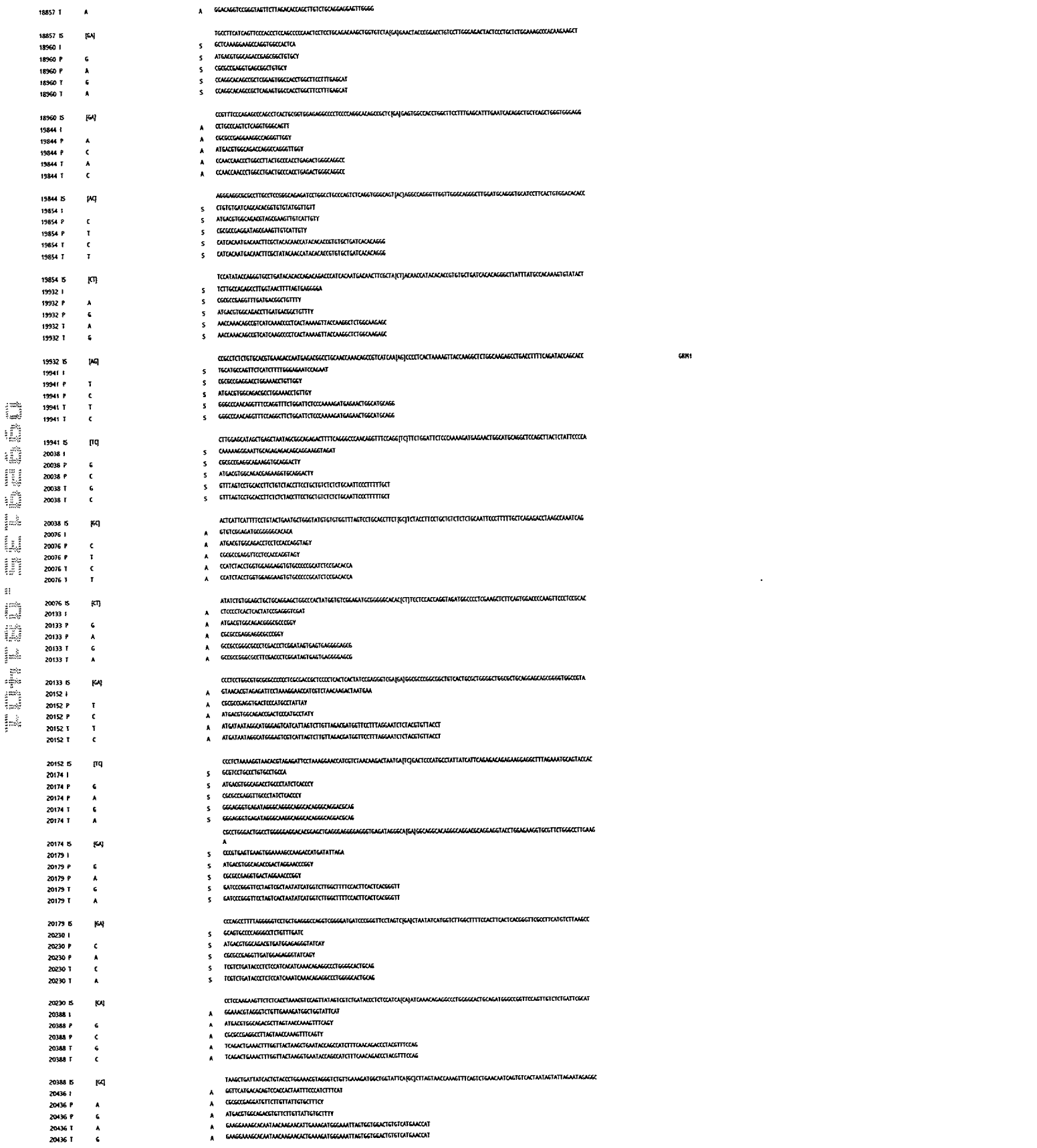

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18960 I S GCTCAAAGGAAGCCAGGTGGCCACTCA
18960 P G S ATGACGTGGCAGACCGAGCGGCTGTGCY
18960 P A S CGGCCGAGGTGAGCGGCTGTGCY
18960 T G S CCAGGCACAGCCGCTCGGAGTGGCCACCTGGCTCCTTTGAGCAT
18960 T A S CCAGGCACAGCCGCTCAGAGTGGCCACCTGGCTTCCTTTGAGCAT
18960 IS [GA] CCGTTTCCCAGAGCCCAGCCTCACTGCGGTGGAGAGGCCCCTCCCCAGGCACAGCCGCTC[GA]GAGTGGCCACCTGGCTTCCTTTGAGCATTTGAATCACAGGCTGCTCAGCTGGGTGGGCAGG
19844 I A CCTGCCCAGTCTCAGGTGGGCAGTT
19844 P A A CGCGCCGAGGAAGGCCAGGGTTGGY
19844 P C A ATGACGTGGCAGACCAGGCCAGGGTTGGY
19844 T A A CCAACCAACCCTGGCCTTACTGCCCACCTGAGACTGGGCAGGCC
19844 T C A CCAACCAACCCTGGCCTGACTGCCCACCTGAGACTGGGCAGGCC
19844 IS [AC] AGGGAGGCGCGCCTTGCCTCCGGGCAGAGAGTCCTGGCCTGCCCAGTCTCAGGTGGGCAGT[AC]AGGCCAGGGTTGGTTGGGCAGGGCTTGGATGCAGGGTGCATCCTTCACTGTGGACACACC
19854 I S CTGTGTGATCAGCACACGGTGTGTATGGTTGTT
19854 P C S ATGACGTGGCAGACGTAGCGAAGTTGTCATTGTY
19854 P T S CGCGCCGAGGATAGCGAAGTTGTCATTGTY
19854 T C S CATCACAATGACAACTTCGCTACACAACCATACACACCCTGTGCTGATCACACAGGG
19854 T T S CATCACAATGACAACTTCGCTATACAACCATACACACCCTGTGCTGATCACACAGGG
19854 IS [CT] TCCATATACCAGGGTGCCTGATACACACCAGACAGACCCATCACAATGACAACTTCGCTA[CT]ACAACCATACACACCGTGTGCTGATCACACAGGGCTATTTATGCCACAAAGTGTATACT
19932 I S TCTTGCCAGAGCCTTGGTAACTTTTAGTGAGGGGA
19932 P A S CGCGCCGAGGTTTGATGACGGCTGTTTY
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19932 IS [AG] CCGCCTCTCTGTGCACGTGAAGACCAATGAGACGGCCTGCAACCAAACAGCCGTCATCAA[AG]CCCCTCACTAAAAGTTACCAAGGCTCTGGCAAGAGCCTATTTATGCCACAAAGTGTATACT GRM1
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20133 P G A ATGACGTGGCAGACGGGCGCCCGGY
20133 P A A CGCGCCGAGGAGGCCCCGGY
20133 T G A GCCGCCGGGCGCCTCGACCCTCGGATAGTGAGTGAGGGGAGCG
20133 T A A GCCGCCGGGCGCCTTCGACCCTCGGATAGTGAGTGAGGGGAGCG
20133 IS [GA] CCCTCCTGGCGTGCGGCCCCCTCGCGACCGCTCCCCTCACTCACTATCCGAGGGTCGA[GA]GGCGCCCGGCGGCTGTCACTGCGCTGGGGCTGGCGCTGCNGGAGCAGCCGGGGTGGCCGTA
20152 I A GTAACAGGTAGAGATTCCTAAAGGAACCATGGTCTAACAAGACTAATGAA
20152 P T A CGCGCCGAGGTGACTCCCATGCCTATTAY
20152 P C A ATGACGTGGCAGACCGACTCCCATGCCTATY
20152 T T A ATGATAATAGGCATGGGAGTCATCATTAGTCTGTTAGACGATGGTTCCTTTAGGAATCTCTACGTGTTACCT
20152 T C A ATGATAATAGGCATGGGAGTCGTCATTAGTCTTGTTAGACGATGGTTCCTTTAGGAATCTCTACGTGTTACCT
20152 IS [TC] CCCTCTAAAAGGTAACACGTAGAGATTCCTAAAGGAACCATCGTCTAACAAGACTAATGA[TC]GACTCCCATGCCTATTATCATTCAGAGACAGAGAAGGAGGCTTTAGAAATGCAGTACCAC
20174 I S GCGTCCTGCCCTGTGCCTGCCA
20174 P G S ATGAGGTGGCAGAACCTGCCCTATCTCACCCY
20174 P A S CGCGCCCAGGTTGCCCTATCTCACCCY
20174 T G S GGGAGGGTGAGATAGGGCAGGGCAGGCACAGGGCAGGACGCAGACSC
20174 T A S GGGAGGGTGAGATAGGGCAAGGCAGGCACAGGGCAGGACGCAGACSC
20174 IS [GA] CGCCTGGGACTGGCCTGGGGGAGGACACGGACGCTGAGGCAGGGGAGGGTGAGATAGGGCA[GA]GGCAGGCACAGGGCAGGACGCAGGAGGTACCTGGAGAAGGTGCGTTCTGGGCCTTGAAG
A
20179 I S CCCGTGAGTGAAGTGGAAAAGCCAAGACCATGATATTAGA
20179 P G S ATGACGTGGCAGACCGACTAGGAACCCGGY
20179 P A S CGCGCCGAGGTGACTAGGAACCCGGY
20179 T G S GATCCCGGGTTCCTAGTCGCTAATATCATGGTCTTGGCTTTTCCACTTCACTCACGGGTT
20179 T A S GATCCCGGGTTCCTAGTCACTAATATCATGGTCTTGGCTTTTCCACTTCACTCACGGGTT
20179 IS [GA] CCCAGCCTTTTAGGGGGTCCTGCTGAGGGCCAGGTCGGGGATGATCCCGGGTTCCTAGTC[GA]CTAATATCATGGTCTTGGCTTTTCCACTTCACTCACGGGTTCGCCTTCATGTCTTAAGCC
20230 I S GCAGTGCCCCAGGGCCTCTGTTTGATC
20230 P C S ATGACGTGGCAGACGTGATGGAGAGGGTATCAY
20230 P A S CGCGCCGAGGTTGATGGAGAGGGTATCAGY
20230 T C S TCGTCTGATACCCTCTCCATCAACATCAAACAGAGGCCCTGGGGCACTGCAG
20230 T A S TCGTCTGATACCCTCTCCATCAAATCAAACAGAGGCCCTGGGGCACTGCAG
20230 IS [CA] CCTCCAAGAAGTTCTCTCACCTAAACGTCCAGTTATAGTCGTCTGATACCCTCTCCATCA[CA]ATCAAACAGAGGCCCTGGGGCACTGCAGATGGGCCGGTTCCAGTTGTCTCTGATTCGCAT
20388 I A GGAAACGTAGGGTCTGTTGAAAGATGGCTGGTATTCAT
20388 P G A ATGACGTGGCAGACGCTTAGTAACCAAGTTTCAGY
20388 P C A CGCGCCGAGGCCTTAGTAACCAAGTTTCAGTY
20388 T G A TCAGACTGAAACTTTGGTTACTAAGCTGAATACCAGCCATCTTTCAACAGACCCTACGTTTCCAG
20388 T C A TCAGACTGAAACTTTGGTTACTAAGGTGAATACCAGCCATCTTTCAACAGACCCTACGTTTCCAG
20388 IS [GC] TAAGCTGATTATCACTGTACCCTGGAAACGTAGGGTCTGTTGAAAGATGGCTGGTATTCA[GC]CTTAGTAACCAAAGTTTCAGTCTGAACAATCAGTGTCACTAATAGTATTAGAATAGAGGC
20436 I A GGTTCATGACACAGTCCACCACTAATTTCCCATCTTTCAT
20436 P A A CGCGCCGAGGATGTTCTTGTTATTGTGCTTTCY
20436 P G A ATGACGTGGCAGACGTGTTCTTGTTATTGTGCTTTY
20436 T A A GAAGGAAAGCACAATAACAAGAACATTCAAAGATGGGAAATTAGTGGTGGACTGTGTCATGAACCAT
20436 T G A GAAGGAAAGCACAATAACAAGAACACTGAAAGATGGGAAATTAGTGGTGGACTGTGTCATGAACCAT

FIGURE 129F

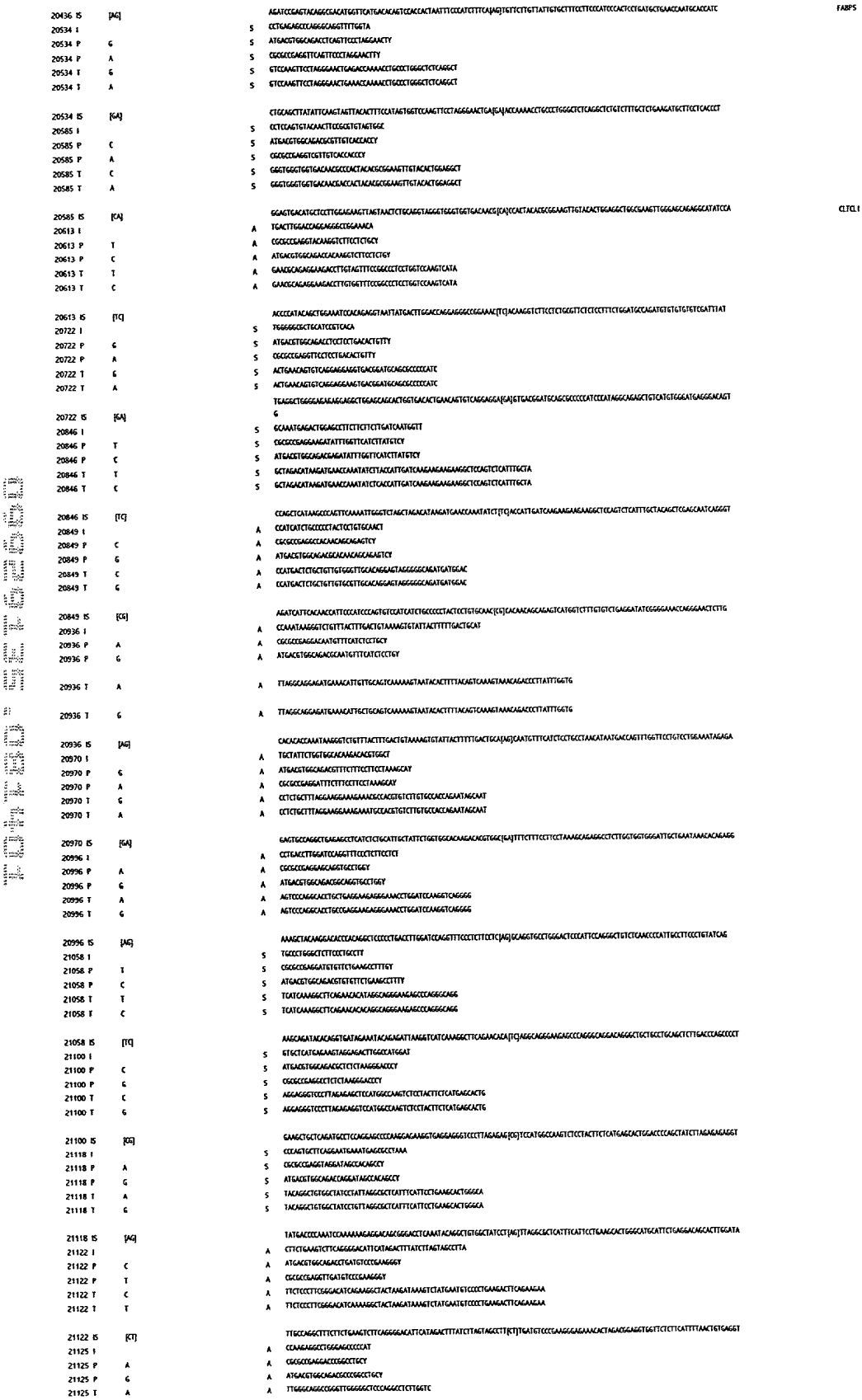

20436 IS [AG] AGATCCGAGTACAGGCGACATGGTTCATGACACAGTCCACCACTAATTTCCCATCTTTCA[AG]TGTTCTTGTTATTGTGCTTTCCTTCCCATCCCACTCCTGATGCTGAACCAATGCACCATC FABP5
20534 I S CCTGAGAGCCCAGGGCAGGTTTTGGTA
20534 P G S ATGACGTGGCAGACCTCAGTTCCCTAGGAACTY
20534 P A S CGCGCCGAGGTTCAGTTCCCTAGGAACTTY
20534 T G S GTCCAAGTTCCTAGGGAACTGAGACCAAAACCTGCCCTGGGCTCTCAGGCT
20534 T A S GTCCAAGTTCCTAGGGAACTGAAACCAAAACCTGCCCTGGGCTCTCAGGCT
20534 IS [GA] CTGCAGCTTATATTCAAGTAGTTACACTTTCCATAGTGGTCCAAGTTCCTAGGGAACTGA[GA]ACCAAAACCTGCCCTGGGCTCTCAGGCTCTGTCTTTGCTCTGAAGATGCTTGCTCACCCT
20585 I S CCTCCAGTGTACAACTTCCGCGTGTAGTGGC
20585 P C S ATGACGTGGCAGACGCGTTGTCACCACCY
20585 P A S CGCGCCGAGGTCGTTGTCACCACCCY
20585 T C S GGGTGGGTGGTGACAACGCCCACTACACGCGGAAGTTGTACACTGGAGGCT
20585 T A S GGGTGGGTGGTGACAACGACCACTACACGCGGAAGTTGTACACTGGAGGCT
20585 IS [CA] GGAGTGACATGCTCCTTGGAGAAGTTAGTAACTCTGCAGGTAGGGTGGGTGGTGACAACG[CA]CCACTACACGCGGAAGTTGTACACTGGAGGCTGGCGAAGTTGGGAGCAGAGGCATATCCA CLTCL1
20613 I A TGACTTGGACCAGCAGGGCCGGAAACA
20613 P T A CGCGCCGAGGTACAAGGTCTTCCTCTGCY
20613 P C A ATGACGTGGCAGACCACAAGGTCTTCCTCTGY
20613 T T A GAACGCAGAGGAAGACCTTGTAGTTTCCGGCCCTCCTGGTCCAAGTCATA
20613 T C A GAACGCAGAGGAAGACCTTGTGGTTTCCGGCCCTCCTGGTCCAAGTCATA
20613 IS [TC] ACCCCATACAGCTGGAAATCCACAGAGGTAATTATGACTTGGACCAGGAGGCCGGAAAC[TC]ACAAGGTCTTCCTCTGGGTTCTCTCCTTTCTGGATGCCAGATGTGTGTGTCGATTTAT
20722 I S TGGGGGCGCTGCATCCGTCACA
20722 P G S ATGACGTGGCAGACCTCCTCCTGACACTGTTY
20722 P A S CGCGCCGAGGTTCCTCCTGACACTGTTY
20722 T G S ACTGAACAGTGTCAGGAGGAGGTGACGGATGCAGCGCCCCCATC
20722 T A S ACTGAACAGTGTCAGGAGGAAGTGACGGATGCAGCGCCCCCATC
20722 IS [GA] TCAGGCTGGGGACAGAGGAGGCTGGAGCAGCACTGGTGACACTGAACAGTGTCAGGAGGA[GA]GTGACGGATGCAGCGCCCCCATCCCATAGGCAGAGCTGTCATGTGGGATGAGGGAACAGT G
20846 I S GCAAATGAGACTGGAGCCTTCTTCTTCTTGATCAATGGTT
20846 P T S CGCGCCGAGGAAGATATTTGGTTCATCTTATGTCY
20846 P C S ATGACGTGGCAGACGAGATATTTGGTTCATCTTATGTCY
20846 T T S GCTAGACATAAGATGAACCAAATATCTTACCATTGATCAAGAAGAAGAAGGCTCCAGTCTCATTTGCTA
20846 T C S GCTAGACATAAGATGAACCAAATATCTCACCATTGATCAAGAAGAAGAAGGCTCCAGTCTCATTTGCTA
20846 IS [TC] CCAGCTCATAAGCCCAGTTCAAAATTGGGTCTAGCTAGACATAAGATGAACCAAATATCT[TC]ACCATTGATCAAGAAGAAGAAGGCTCCAGTCTCATTTGCTACAGCTCGAGCAATCAGGGT
20849 I A CCATCATCTGCCCCCTACTCCTGTGCAACT
20849 P C A CGCGCCGAGGCCACAACAGCAGAGTCY
20849 P G A ATGACGTGGCAGACGACAACAGCAGAGTCY
20849 T C A CCATGACTCTGCTGTTGTGGGTTGCACAGGAGTAGGGGGCAGATGATGGAC
20849 T G A CCATGACTCTGCTGTTGTGCGTTGCACAGGAGTAGGGGGCAGATGATGGAC
20849 IS [CG] AGATCATTCACAACCATTCCCATCCCAGTGTCCATCATCTGCCCCCTACTCCTGTGCAAC[CG]CACAACAGCAGAGTCATGGTCTTTGTGTCTGAGGATATCGGGGGAAACCAGGGAACTCTTG
20936 I A CCAAATAAGGGTCTGTTTACTTTGACTGTAAAAGTGTATTACTTTTTGACTGCAT
20936 P A A CGCGCCGAGGACAATGTTTCATCTCCTGCY
20936 P G A ATGACGTGGCAGACGCAATGTTTCATCTCCTGY
20936 T A A TTAGGCAGGAGATGAAACATTGTTGCAGTCAAAAAGTAATACACTTTTACAGTCAAAGTAAACAGACCCTTATTTGGTG
20936 T G A TTAGGCAGGAGATGAAACATTGCTGCAGTCAAAAAGTAATACACTTTTACAGTCAAAGTAAACAGACCCTTATTTGGTG
20936 IS [AG] CACACACCAAATAAGGGTCTGTTTACTTTGACTGTAAAAGTGTATTACTTTTTGACTGCA[AG]CAATGTTTCATCTCCTGCCTAACATAATGACCAGTTTGGTTCCTGTCCTGGCTAACATAGAGA
20970 I A TGCTATTCTGGTGGCACAAGACACGTGGCT
20970 P G A ATGACGTGGCAGACGTTTCTTTCCTTCCTAAAGCAY
20970 P A A CGCGCCGAGGATTTCTTTCCTTCCTAAAGCAY
20970 T G A CCTCTGCTTTAGGAAGGAAAGAAACGCCACGTGTCTTGTGCCAACCAGAATAGCAAT
20970 T A A CCTCTGCTTTAGGAAGGAAAGAAATGCCACGTGTCTTGTGCCAACCAGAATAGCAAT
20970 IS [GA] GAGTGCCAGGCTGAGAGCCTCATCTCTGCATTGCTATTCTGGTGGCACAAGACACGTGGC[GA]TTCTTTCCTTCCTCCTAAAGCAGAGGCCTCTTGGTGGTGGGGATTGCTGAATAAACACAGAGG
20996 I A CCTCACCTTGGATCCAGGTTTCCCTCTTCCTCT
20996 P A A CGCGCCGAGGAGCAGGTGCCTGGY
20996 P G A ATGACGTGGCAGACGGCAGGTGCCTGGY
20996 T A A AGTCCCAGGCACCTGCCGAGGAACAGGCAAACCTGGATCCAAGGTCAGGGG
20996 T G A AGTCCCAGGCACCTGCCGAGGAACAGGCAAACCTGGATCCAAGGTCAGGGG
20996 IS [AG] AAAGCTACAAGGACACCCACAGGCTCCCCCTGACCTTGGATCCAGCTTTCCCTCTTCCTC[AG]GCAGGTGCCTGGGACTCCCATTCCAGGGCTGTCTCAACCCCATTGCCTTCCTGTATCAG
21058 I S TGCCCTGGGCTCTTCCCTGCCTT
21058 P T S CGCGCCGAGGATGTGTTCTGAAGCCTTTGY
21058 P C S ATGACGTGGCAGACGTGTGTTCTGAAGCCTTTY
21058 T T S TCATCAAAGGCTTCAGAACACATAGGCAGGGAAGAGCCCAGGCAAG
21058 T C S TCATCAAAGGCTTCAGAACACACAGGCAGGGAAGAGCCCAGGCAAG
21058 IS [TC] AAGCAGATACAGAGGTGATAGAAATACAGAGATTAAGGTCATCAAAGGCTTCAGAACACA[TC]AGGCAGGGAAGAGCCCAGGGCAGGACAGGGCTGCTGCCTGCAGCTCTTGACCCAGCCCCT
21100 I S GTGCTCATCAGAAGTAGGAGACTTGGCCATGGAT
21100 P C S ATGACGTGGCAGACGCTCTCTAAGGGACCCY
21100 P G S CGCGCCCGAGGCCTCTCTAAGGGACCCY
21100 T C S AGGAGGGTCCCTTAGAGAGCTCCATGGCCAAGTCTCCTACTTCTCATGAGCACTG
21100 T G S AGGAGGGTCCCTTAGAGAGGTCCATGGCCAAGTCTCCTACTTCTCATGAGCACTG
21100 IS [CG] GAAGCTGCTCAGATGCCTCCAGGAGCCCCAAGCAGAAGGTGAGGAGGGTCCCTTAGAGAG[CG]TCCATGGCCAAGTCTCCTACTTCTCATGAGCACTGGACCCCAGCTATCTTAGAGAGAGGT
21118 I S CCCAGTGCTTCAGGAATGAAATGAGCGCCTAAA
21118 P A S CGCGCCGAGGTAGGATAGCCACAGCCY
21118 P G S ATGACGTGGCAGACGAGGATAGCCACAGCCY
21118 T A S TACAGGCTGTGGCTATCCTATTAGGCGCTCATTTCATTCCTGAAGCACTGGGCA
21118 T G S TACAGGCTGTGGCTATCCTGTTAGGCGCTCATTTCATTCCTGAAGCACTGGGCA
21118 IS [AG] TATGACCCCAAATCCAAAAAGAGAGGACAGCGGGACCTCAAATACAGGCTGTGGCTATCCT[AG]TTAGGCGCTCATTTCATTCCTGAAGCACTGGGCATGCATTCTGAGGACAGCACTTGGATA
21122 I A CTTCTGAAGTCTTCAGGGGACATTCATAGACTTTATCTTAGTAGCCTTA
21122 P C A ATGACGTGGCAGACCTGATGTCCCGAAGGGY
21122 P T A CGCGCCGAGGTTGATGTCCCGAAGGGY
21122 T C A TTCTCCCTTCGGGACATCAGAAGCCTACTAAGATAAAGTCTATGAATGTCCCCTGAAGACTTCAGAAGAA
21122 T T A TTCTCCCTTCGGGACATCAAAAGCCTACTAAGATAAAGTCTATGAATGTCCCCTGAAGACTTCAGAAGAA
21122 IS [CT] TTGCCAGGCTTTCTTCTGAAGTCTTCAGGGGACATTCATAGACTTTATCTTAGTAGCCTT[CT]TGATGTCCCCAAGGGAGAAACACTAGACGGAGGTGGTTCTCTTCATTTTAACTGTGAGGT
21125 I A CCAAGAGGCCTGGGAGCCCCCAT
21125 P A A CGGGCCGAGGACCCGGCCTGCY
21125 P G A ATGACGTGGCAGACGCCCGGCCTGCY
21125 T A A TTGGGCAGGCCGGGTTGGGGGCTCCCAGGCCTCTTGGTC

FIGURE 129F

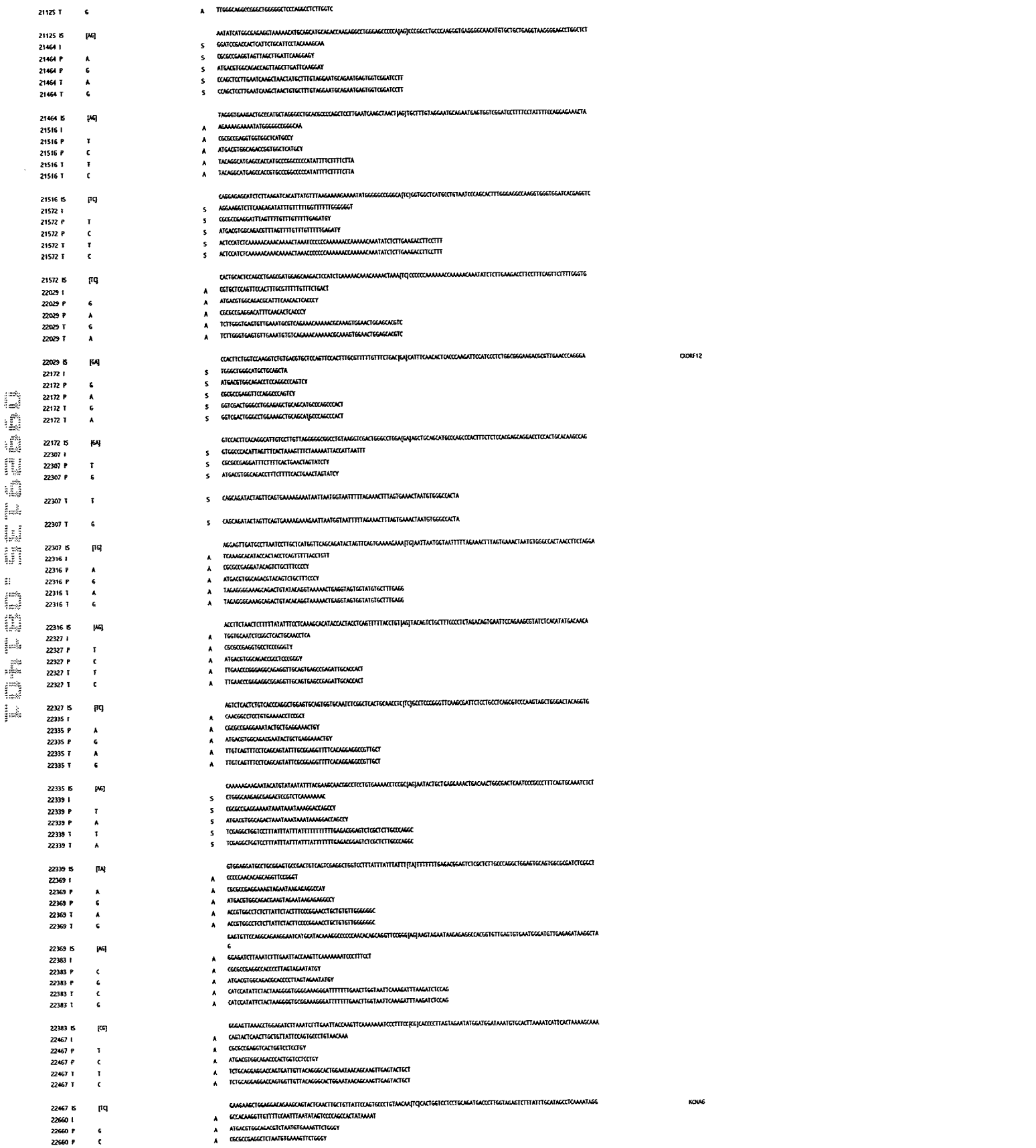


FIGURE 129F

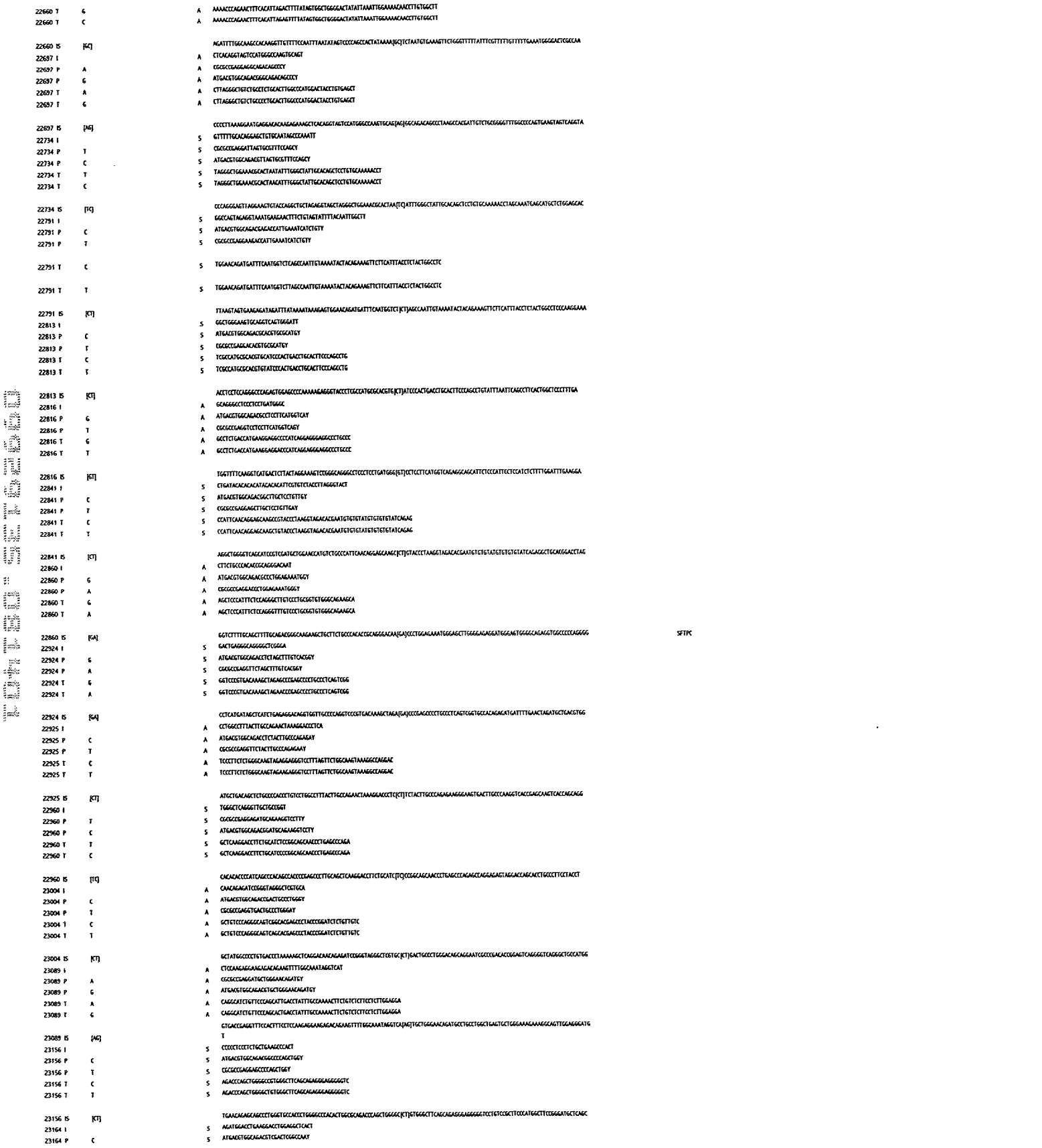


FIGURE 129F

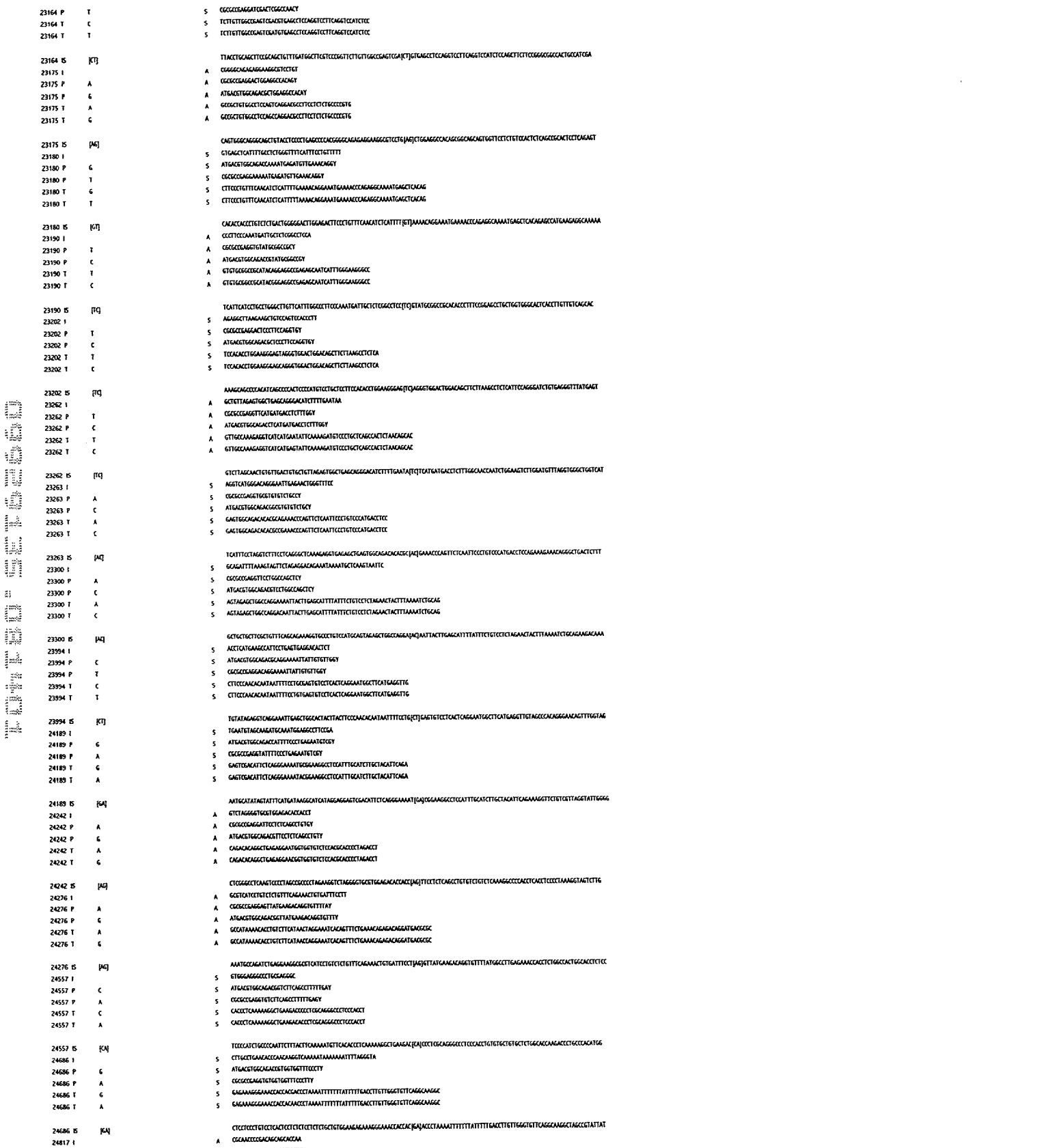

23164 P T S CGCCCCGAGGATCGACTCGGCCAACY
23164 T C S TCTTGTTGGCCGAGTCGACGTGAGCCTCCAGGTCCTTCAGGTCCATCTCC
23164 T T S TCTTGTTGGCCGAGTCGATGTGAGCCTCCAGGTCCTTCAGGTCCATCTCC
23164 IS [CT] TTACCTGCAGCTTCCGCAGCTGTTTGATGGCTTCGTCCCGGTTCTTGTTGGCCGAGTCGA[CT]GTCAGCCTCCAGGTCCTTCAGGTCCATCTCCAGCTTCTTCCGGGGCGGCCACTGCCATCGA
23175 I A CGGGGCCAGAGAGGAAGGCGTCCTGT
23175 P A A CGCGCCGAGGACTGGAGGCCACAGY
23175 P G A ATGACGTGGCAGACGCTGGAGGCCACAY
23175 T A A GCCGCTGTGCCTCCAGTCAGGAACGCCTCCTCTCTCTGCCCCGTG
23175 T G A GCCGCTGTGGCCTCCAGCCAGGACGCCTTCCTCTCTGCCCCGTG
23175 IS [AG] CAGTGGGCAGGGCAGCTGTACCTCCCCTGAGCCCCACGGGGCAGAGAGGAAGGGTCCTG[AG]CTGGAGGCCACAGCGGCAGCAGTGGTTCCTCTGTCCACTCTCAGCCGCACTCCTCAGAGT
23180 I S GTGAGCTCATTTTGCCTCTGGGTTTTCATTTCCTGTTTTT
23180 P G S ATGACGTGGCAGACCAAAATGAGATGTTGAAACAGGY
23180 P T S CGCGCCGAGGAAAAATGAGATGTTGAAACAGGY
23180 T G S CTTCCCTGTTTCAACATCTCATTTTGAAAACAGGAAATGAAAACCCAGAGGCAAAATGAGCTCACAG
23180 T T S CTTCCCTGTTTCAACATCTCATTTTTAAAACAGGAAATGAAAACCCAGAGGCAAAATGAGCTCACAG
23180 IS [GT] CACACCACCCTGTCTCTGACTGGGGGACTTGGAGACTTCCCTGTTTCAACATCTCATTTT[GT]AAAACAGGAAATGAAAACCCAGAGGCAAAATGAGCTCACAGAGCCATGAAGAGGCAAAAA
23190 I A CCCTTCCCAAATGATTGCTCTCGGCCTCCA
23190 P T A CGCGCCGAGGTGTATGCGGCCGCY
23190 P C A ATGACGTGGCAGACGCTATGCGGCCGY
23190 T T A GTGTGCGGCCGCATACAGGAGGCCGAGAGCAATCATTTGGGAAGGGCC
23190 T C A GTGTGCGGCCGCATACGGGAGGCCGAGAGCAATCATTTGGGAAGGGCC
23190 IS [TC] TCATTCATCCTGCCTGGGCCTGTTCATTTGGGCCTTCCCAAATGATTGCTCTGGGCCTCC[TC]GTATGCGGCCGCACACCCTTTCCGGAGCCTGCTGGTGGGCACTCACCTTGTTGTCAGCAC
23202 I S AGAGGCTTAAGAAGCTGTCCAGTCCACCCTT
23202 P T S CGCGCCGAGGACTCCCTTCCAGGTGY
23202 P C S ATGACGTGGCAGACGCTCCCTTCCAGGTGY
23202 T T S TCCACACCTGGAAGGGAGTAGGGTGGACTGGACAGCTTCTTAAGCCTCTCA
23202 T C S TCCACACCTGGAAGGGAGCAGGGTGGACTGGACAGCTTCTTAAGCCTCTCA
23202 IS [TC] AAAGCAGCCCACATCAGCCCCACTCCCCATGTCCTGCTCCTTCCACACCTGGAAGGGAG[TC]AGGGTGGACTGGACAGCTTCTTAAGCCTCTCATTCCAGGGATCTGTGAGGGTTTATGAGT
23262 I A GCTGTTAGAGTGGCTGAGCAGGGACATCTTTTGAATAA
23262 P T A CGCGCCGAGGTTCATGATGACCTCTTTGGY
23262 P C A ATGACGTGGCAGACCTCATGATGACCTCTTTGGY
23262 T T A GTTGCCAAAGAGGTCATCATGAATATTCAAAAGATGTCCCTGCTCAGCCACTCTAACAGCAC
23262 T C A GTTGCCAAAGAGGTCATCATGAGTATTCAAAAGATGTCCCTGCTCAGCCACTCTAACAGCAC
23262 IS [TC] GTCTTAGCAACTGTGTTGACTGTGCTGTTAGAGTGGCTGAGCAGGGCACATCTTTTGAATA[TC]TCATGATGACCTCTTGGCAACCAATCTGGAAGTCTTGGATGTTTAGGTGGGCTGGTCAT
23263 I S AGGTCATGGGACAGGGAATTGAGAACTGGGTTTCC
23263 P A S CGCGCCCAGGTGGGTGTGTCTGCCY
23263 P C S ATGACGTGGCAGACGGCGTGTGTCTGCY
23263 T A S GAGTGGCAGACACACGCAGAAACCCAGTTCTCAATTCCCTGTCCCATGACCTCC
23263 T C S GAGTGGCAGACACACGCCGAAACCCAGTTCTCAATTCCCTGTCCCATGACCTCC
23263 IS [AC] TCATTTCCTAGGTCTTTCCTCAGGGCTCAAAGAGGTGAGAGCTGAGTGGCAGACACACGC[AC]GAAACCCAGTTCTCAATTCCCTGTCCCATGACCTCCAGAAAGAAACAGGGCTGACTCTTT
23300 I S GCAGATTTTAAAGTAGTTCTAGAGGAGACAGAAATAAAATGCTCAAGTAATTC
23300 P A S CGCGCCGAGGTTCCTGGCCAGCTCY
23300 P C S ATGACGTGGCAGACGTCCTGGCCAGCTCY
23300 T A S AGTAGAGCTGGCCAGGAAAATTACTTGAGCATTTTATTTCTGTCCTCAGAACTACTTTAAAATCTGCAG
23300 T C S AGTAGAGCTGGCCAGGACAATTACTTGAGCATTTTATTTCTGTCCTCAGAACTACTTTAAAATCTGCAG
23300 IS [AC] GCTGCTGCTTCGCTGTTTCAGCAGAAAGGTGCCCTGTCCATGCAGTAGAGCTGGCCAGGA[AC]AATTACTTGAGCATTTTATTTCTGTCCTCAGAACTACTTTAAAATCTGCAGAAGACAAA
23994 I S ACCTCATGAAGCCATTCCTGAGTGAGGACACTCT
23994 P C S ATGACGTGGCAGACGCAGGAAAATTATTGTGTTGGY
23994 P T S CGCGCCGAGGACAGGAAAATTATTGTGTTGGY
23994 T C S CTTCCCAACACAATAATTTTCCTGTGAGTGTCCTCACTCAGGAATGGCTTCATGAGGTTG
23994 T T S CTTCCCAACACAATAATTTTCCTGTGAGTGTCCTCACTCAGGAATGGCTTCATGAGGTTG
23994 IS [CT] TGTATAGAGGTCAGGAAATTGAGCTGGCACTACTTACTTCCCAACACAATAATTTTCCTG[CT]GAGTGTCCTCACTCAGGAATGGCTTCATGAGGTTGTAGCCCACAGGGAACAGTTTGGTAG
24189 I S TGAATGTAGCAAGATGCAAATGGAGGCCTTCCGA
24189 P G S ATGACGTGGCAGACCATTTTCCCTGAGAATGTCGY
24189 P A S CGCGCCGAGGTATTTTCCCTGAGAATGTCGY
24189 T G S GAGTCGACATTCTCAGGGAAAATGCGGAAGGCCTCCATTTGCATCTTGCTACATTCAGA
24189 T A S GAGTCGACATTCTCAGGGAAAATACGGAAGGCCTCCATTTGCATCTTGCTACATTCAGA
24189 IS [GA] AATGCATATAGTATTTCATGATAAGGCATCATAGGAGGAGTCGACATTCTCAGGGAAAAT[GA]CGGAAGGCCTCCATTTGCATCTTGCTACATTCAGAAAGGTTCTGTCGTTAGGTATTGGGG
24242 I A GTCTAGGGGTGGGTGGAGACACCACCT
24242 P A A CGCGCCGAGGATTCCTCTCAGCCTGTGY
24242 P G A ATGACGTGGCAGACGTTCCTCTCAGCCTGTY
24242 T A A CAGACACAGGCTGAGAGGAATGGTGGTGTCTCCACGCACCCCTAGACCT
24242 T G A CAGACACAGGCTGAGAGGAACGGTGGTGTCTCCACGCACCCCTAGACCT
24242 IS [AG] CTCGGGGCTCAAGTCCCCTAGCCGCCCCTAGAAGGTCTAGGGGTGCGTGGAGACACCACC[AG]TTCCTCTCAGCCTGTGTCTGTCTCAAGGCCCCACCTCACCTCCCCTAAAGGTAGTCTTG
24276 I A GCGTCATCCTGTCTCTGTTTCAGAAACTGTGATTTCCTT
24276 P A A CGCGCCGAGGAGTTATGAAGACAGGTGTTTTAY
24276 P G A ATGACGTGGCAGACGGTTATGAAGACAGGTGTTTY
24276 T A A GCCATAAAACACCTGTCTTCATAACTAGGAAATCACAGTTTCTGAAACAGAGACAGGATGAGCGC
24276 T G A GCCATAAAACACCTGTCTTCATAACCAGGAAATCACAGTTTCTGAAACAGAGACAGGATGAGCGC
24276 IS [AG] AAATGCCAGATCTGAGGAAGGCGCTCATCCTGTCTCTGTTTCAGAAACTGTGATTTCCT[AG]GTTATGAAGACAGGTGTTTTATGGCCTTGAGAAACCACCTCTGGCCACTGGCACCCTCTCC
24557 I S GTGGGAGGGCCCTGCCAGGGC
24557 P C S ATGACGTGGCAGACGGTCTTCAGCCTTTTGAY
24557 P A S CGCGCCGAGGTGTCTTCAGCCTTTTGAGY
24557 T C S CACCCTCAAAAAGGCTGAAGACCCCCTCGCAGAGGCCCTCCCACCT
24557 T A S CACCCTCAAAAAGGCTGAAGACACCCTCGCAGAGGCCCTCCCACCT
24557 IS [CA] TCCCCATCTGCCCCAATTCTTTACTTCAAAAATGTTCACACCCTCAAAAAGGCTGAAGAC[CA]CCCTCGCAGGGCCCTCCCACCTGTGTGCTGTCTGCTCTGGCACCAAGACCCTGCCCACATGG
24686 I S CTTGCCTGAACACCCAACAAGGTCAAAAATAAAAAAATTTTAGGGTA
24686 P G S ATGACGTGGCAGACCGTGGTGGTTTCCCTY
24686 P A S CGCGCCGAGGTGTGGTGGTTTCCCTTY
24686 T G S GAGAAAGGGAAACCACCACGACCCTAAAATTTTTTTATTTTTGACCTTGTTGGGTGTTCAGGCAAGGC
24686 T A S GAGAAAGGGAAACCACACAACCCTAAAATTTTTTATTTTTGACCTTGTTGGGTGTTCAGGCAAGGC
24686 IS [CA] CTCCTCCCTGTCCTCACTCCTCTCTCCTCTCTGCTGTGGAAGAGAAAGGGAAACCACAC[CA]ACCCTAAAATTTTTTTATTTTTGACCTTGTTGGGTGTTCAGGCAAGGCTAGCCGTATTAT
24817 I A CGCAACCCCGACAGCAGCACCAA
24817 P T A CGCGCCGAGGTGGGACCCTGGTGY
24817 P C A ATGACGTGGCAGACCGGGCACCCTGGTGY

FIGURE 129F

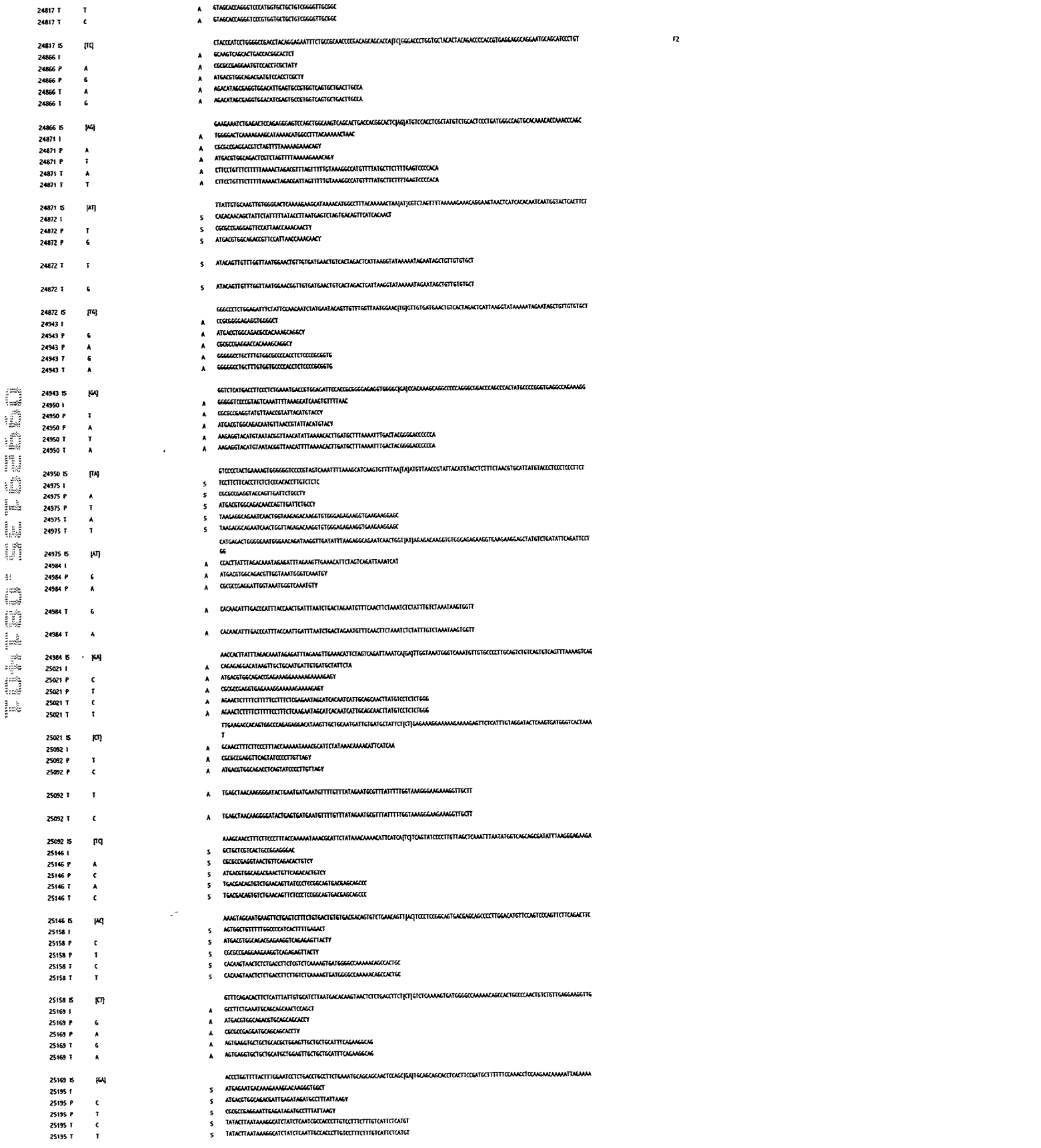
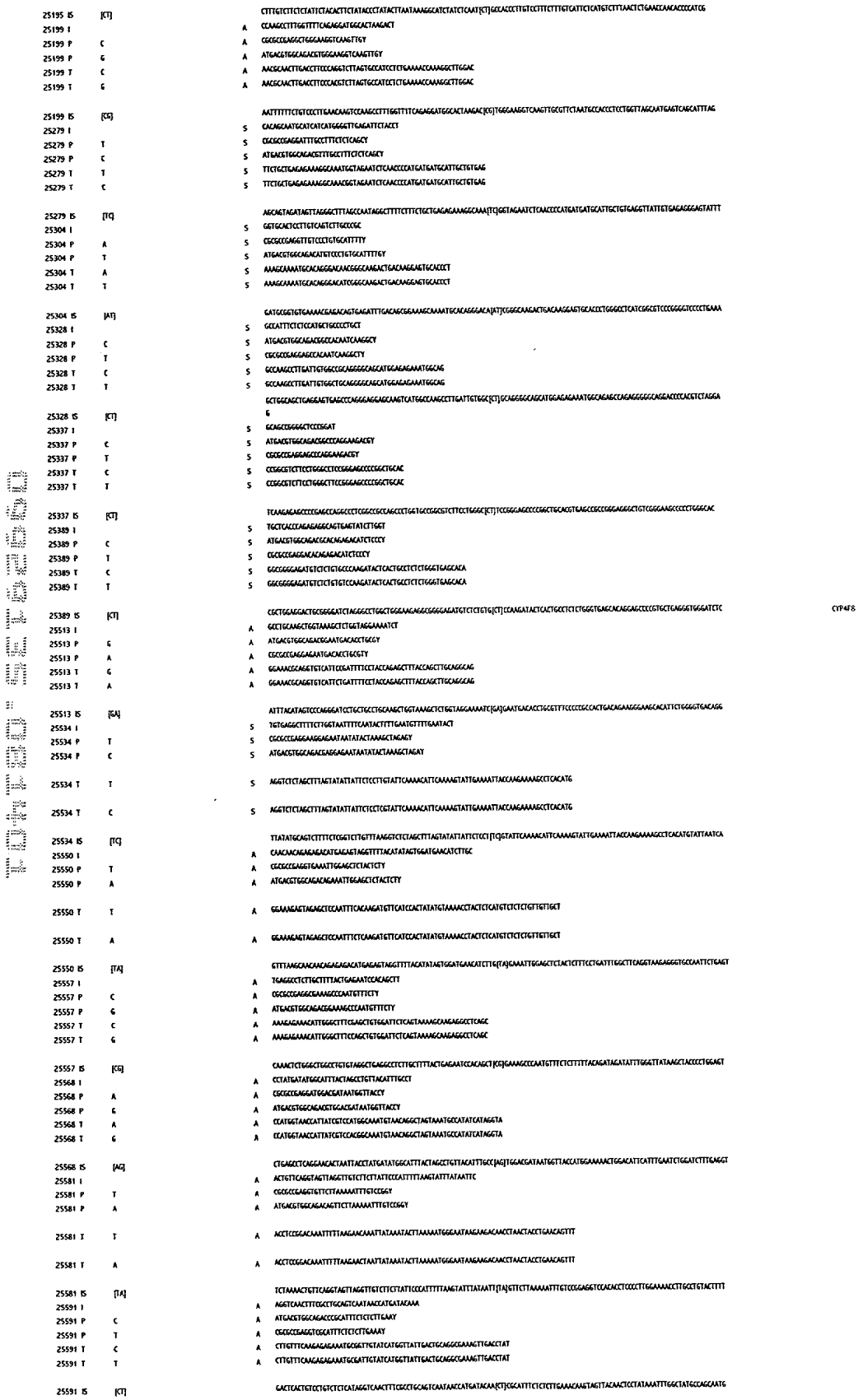


FIGURE 129F


25195 IS [CT] CTTTGTCTTCTCTATTCTACACTTCTATACCCTATACTTAATAAAGGCATCTATCTCAAT[CT]GCCACCCTTGTCCTTTCTTTGTCATTCTCATGTCTTTAACTCTGAACCAACACCCCATCG
25199 I A CCAAGCCTTTGGTTTTCAGAGGATGGCACTAAGACT
25199 P C A CGCGCCGAGGCTGGGAAGGTCAAGTTGY
25199 P G A ATGACGTGGCAGACGTGGGAAGGTCAAGTTGY
25199 T C A AACGCAACTTGACCTTCCCAGGTCTTAGTGCCATCCTCTGAAAACCAAAGGCTTGGAC
25199 T G A AACGCAACTTGACCTTCCCAGCTCTTAGTGCCATCCTCTGAAAACCAAAGGCTTGGAC

25199 IS [CG] AATTTTTTCTGTCCCTTGAACAAGTCCAAGCCTTTGGTTTTCAGAGGATGGCACTAAGAC[CG]TGGCAAGGTCAAGTTGCGTTCTAATGCCACCCTCCTGGTTAGCAATGAGTCAGCATTTAG
25279 I S CACAGCAATGCATCATCATGGGGTTGAGATTCTACCT
25279 P T S CGCGCCGAGGATTTGCCTTTCTCTCAGCY
25279 P C S ATGACGTGGCAGACGTTTGCCTTTCTCTCAGCY
25279 T T S TTCTGCTGAGAGAAAGGCAAATGGTAGAATCTCAACCCCATGATGATGCATTGCTGTGAG
25279 T C S TTCTGCTGAGAGAAAGGCAAACGGTAGAATCTCAACCCCATGATGATGCATTGCTGTGAG

25279 IS [TC] AGCAGTAGATAGTTAGGGCTTTAGCCAATAGGCTTTTCTTTCTGCTGAGAGAAAGGCAAA[TC]GGTAGAATCTCAACCCCATGATGATGCATTGCTGTGAGGTTATTGTGAGAGGCAGTATTT
25304 I S GGTGCACTCCTTGTCAGTCTTGCCCGC
25304 P A S CGCGCCGAGGTTGTCCCTGTGCATTTTY
25304 P T S ATGACGTGGCAGACATGTCCCTGTGCATTTTGY
25304 T A S AAAGCAAAATGCACAGGGACACAGGGCAAGACTGACAAGGAGTGCACCCT
25304 T T S AAAGCAAAATGCACAGGGACATCGGGCAAGACTGACAAGGAGTGCACCCT

25304 IS [AT] GATGCGGTGTGAAAACGAGACAGTGAGATTTGACAGCGGAAAGCAAAATGCACAGGGACA[AT]CGGGCAAGACTGACAAGGAGTGCACCCTGGGGCTCATCGGCGTCCCCGGGTCCCCTGAAA
25328 I S GCCATTTCTCTCCATGCTGCCCCTGCT
25328 P C S ATGACGTGGCAGACGGCCACAATCAAGGCY
25328 P T S CGCGCCGAGGAGCCACAATCAAGGCTY
25328 T C S GCCAAGCCTTGATTGTGGCCGCAGGGGCAGCATGGAGAGAAATGGCAG
25328 T T S GCCAAGCCTTGATTGTGGCTGCAGGGGCAGCATGGAGAGAAATGGCAG

25328 IS [CT] GCTGGCAGCTGAGGAGTGAGCCCAGGGAGGAGCAAGTCATGGCCAAGCCTTGATTGTGGC[CT]GCAGGGGCAGCATGGAGAGAAATGGCAGAGCCAGAGGGGGCAGACCCCACGTCTAGGA
G
25337 I S GCAGCCGGGGCTCCCGGAT
25337 P C S ATGACGTGGCAGACGCCCAGGAAGACGY
25337 P T S CGCGCCGAGGAGCCCAGGAAGACGY
25337 T C S CCGGGCTCTTCCTGGGCCTCCGGGAGCCCCGGCTGCAC
25337 T T S CCGGGCTCTTCCTGGGCTTCCGGGAGCCCCGGCTGCAC

25337 IS [CT] TCAAGAGAGCCCCGAGCCAGCCCTCGGCCGCCAGCCCTGGTGCCGGCGTCTTCCTGGGC[CT]TCCGGCAGCCCCGGCTGCACGTGAGCCGCCGGGAGGGCTGTCGGCAAGCCCCCTGGGCAC
25389 I S TGCTCACCAGAGAGGCAGTGAGTATCTTGGT
25389 P C S ATGACGTGGCAGACGCACAGAGACATCTCCCY
25389 P T S CGCGCCGAGGACACAGAGACATCTCCCY
25389 T C S GGCGGGGAGAATGTCTCTGTGCCCAAGATACTCACTGCCTCTCTGGGTGAGCACA
25389 T T S GGCGGGGAGAATGTCTCTGTGTCCAAGATACTCACTGCCTCTCTGGGTGAGCACA

25389 IS [CT] CGCTGGAGGACTGCGGGGATCTAGGGCCTGGCTGGGAAGAGGCGGGGAGATGTCTCTGTG[CT]CCAAGATACTCACTGCCTCTCTGGGTGAGCACAGGAGCCCCGTGCTGAGGGTGGGATCTC CYP4F8
25513 I A GCCTGCAAGCTGGTAAAGCTCTGGTAGGAAAATCT
25513 P G A ATGACGTGGCAGACGCAATGACACCTGCGY
25513 P A A CGCGCCGAGGAGAATGACACCTGCGTY
25513 T G A GGAAACGCAGGTGTCATTCCGATTTCCTACCAGAGCTTTACCAGCTTGCAGGCAG
25513 T A A GGAAACGCAGGTGTCATTCTGATTTCCTACCAGAGCTTTACCAGCTTGCAGGCAG

25513 IS [GA] ATTTACATAGTCCCAGGGATCCTGCTGCCTGCAAGCTGGTAAAGCTCTGGTAGGAAAATC[GA]GAATGACACCTGCGTTTCCCCGCCACTGACAGAAGGGAAGCACATTCTGGGGTGACAGG
25534 I S TGTGAGGCTTTTCTTGGTAATTTTCAATACTTTTGAATGTTTTGAATACT
25534 P T S CGCGCCGAGGAAGGAGAATAATATACTAAAGCTAGAGY
25534 P C S ATGACGTGGCAGACGAGGAGAATAATATACTAAAGCTAGAY

25534 T T S AGGTCTCTAGCTTTAGTATATTATTCTCCTTGTATTCAAAACATTCAAAAGTATTGAAAATTACCAAGAAAAGCCTCACATG

25534 T C S AGGTCTCTAGCTTTAGTATATTATTCTCCTCGTATTCAAAACATTCAAAAGTATTGAAAATTACCAAGAAAAGCCTCACATG

25534 IS [TC] TTATATGCAGTCTTTTCTCGGTCTTGTTTAAGGTCTCTAGCTTTAGTATATTATTCTCCT[TC]GTATTCAAAACATTCAAAAGTATTGAAAATTACCAAGAAAAGCCTCACATGTATTAATCA
25550 I A CAACAACAGAGAGACATCAGAGTAGGTTTTACATATAGTGGATGAACATCTTGC
25550 P T A CGCGCCGAGGTGAAATTGGAGCTCTACTCTY
25550 P A A ATGACGTGGCAGACAGAAATTGGAGCTCTACTCTY

25550 T T A GGAAGAGTAGAGCTCCAATTTCACAAGATGTTCATCCACTATATGTAAAACCTACTCTCATGTCTCTCTGTTGTTGCT

25550 T A A GGAAAGAGTAGAGCTCCAATTTCTCAAGATGTTCATCCACTATATGTAAAACCTACTCTCATGTCTCTCTGTTGTTGCT

25550 IS [TA] GTTTAAGCAACAACAGAGAGACATGAGAGTAGGTTTTACATATAGTGGATGAACATCTTG[TA]GAAATTGGAGCTCTACTCTTTCCTGATTTGGCTTCAGGTAAGAGGGTGCCAATTCTGAGT
25557 I A TCAGGCCTCTTGCTTTTACTGAGAATCCACAGCTT
25557 P C A CGCGCCGAGGCGAAAGCCCAATGTTTCTY
25557 P G A ATGACGTGGCAGACGGAAAGCCCAATGTTTCTY
25557 T C A AAAGAGAAACATTGGGCTTTCGAGCTGTGGATTCTCAGTAAAAGCAAGAGGCCTCAGC
25557 T G A AAAGAGAAACATTGGGCTTTCCAGCTGTGGATTCTCAGTAAAAGCAAGAGGCCTCAGC

25557 IS [CG] CAAACTCTGGGCTGGCCTGTGTAGGCTGAGGCCTCTTGCTTTACTGAGAATCCACAGCT[CG]GAAAGCCCAATGTTTCTCTTTTTACAGATAGATATTTGGGTTATAAGCTACCCCTGGAGT
25568 I A CCTATGATATGGCATTTACTAGCCTGTTACATTTGCCT
25568 P A A CGCGCCGAGGATGGACGATAATGGTTACCY
25568 P G A ATGACGTGGCAGACGTGCACGATAATGGTTACCY
25568 T A A CCATGGTAACCATTATCGTCCATGGCAAATGTAACAGGCTAGTAAATGCCATATCATAGGTA
25568 T G A CCATGGTAACCATTATCGTCCACGGCAAATGTAACAGGCTAGTAAATGCCATATCATAGGTA

25568 IS [AG] CTGAGCCTCAGGAACACTAATTACCTATGATATGGCATTTACTAGCCTGTTACATTTGCC[AG]TGGACGATAATGGTTACCATGGAAAACTGGACATTCATTTGAATCTGGATCTTTGAAGT
25581 I A ACTGTTCAGGTAGTTAGGTTGTCTTCTTATTCCCATTTTTAAGTATTTATAATTC
25581 P T A CGCGCCGAGGTGTCTTAAAAATTTGTCCGGY
25581 P A A ATGACGTGGCAGACAGTCTCTTAAAAATTTGTCCGGY

25581 T T A ACCTCCGGACAAATTTTAAGAACAAATTATAAATACTTAAAAATGGGAATAAGAAGACAACCTAACTACCTGAACAGTTT

25581 T A A ACCTCCGGACAAATTTTAAGAACTAATTATAAATACTTAAAAATGGGAATAAGAAGACAACCTAACTACCTGAACAGTTT

25581 IS [TA] TCTAAAACTGTTCAGGTAGTTAGGTTGTCTTCTTATTCCCATTTTTAAGTATTTATAATT[TA]GTTCTTAAAAATTTGTCCGGAGGTCCACACCTCCCCTTGGAAAACCTTGCCTGTACTTTT
25591 I A AGGTCAACTTTCGCCTGCAGTCAATAACCATGATACAAA
25591 P C A ATGACGTGGCAGACCCGCATTTCTCTCTTGAAY
25591 P T A CGCGCCGAGGTGCATTTCTCTCTTGAAAY
25591 T C A CTTGTTTCAAGAGAGAAATGCGGTTGTATCATGGTTATTGACTGCAGGCGAAAGTTGACCTAT
25591 T T A CTTGTTTCAAGAGAGAAATGCGATTGTATCATGGTTATTGACTGCAGGCGAAAGTTGACCTAT

25591 IS [CT] GACTCACTGTCCTGTCTCTCATAGGTCAACTTTCGCCTGCAGTCAATAACCATGATACAA[CT]CGCATTTCTCTCTTGAAACAAGTAGTTACAACTCCTATAAATTTGGCTATGCCAGCAATG

FIGURE 129F

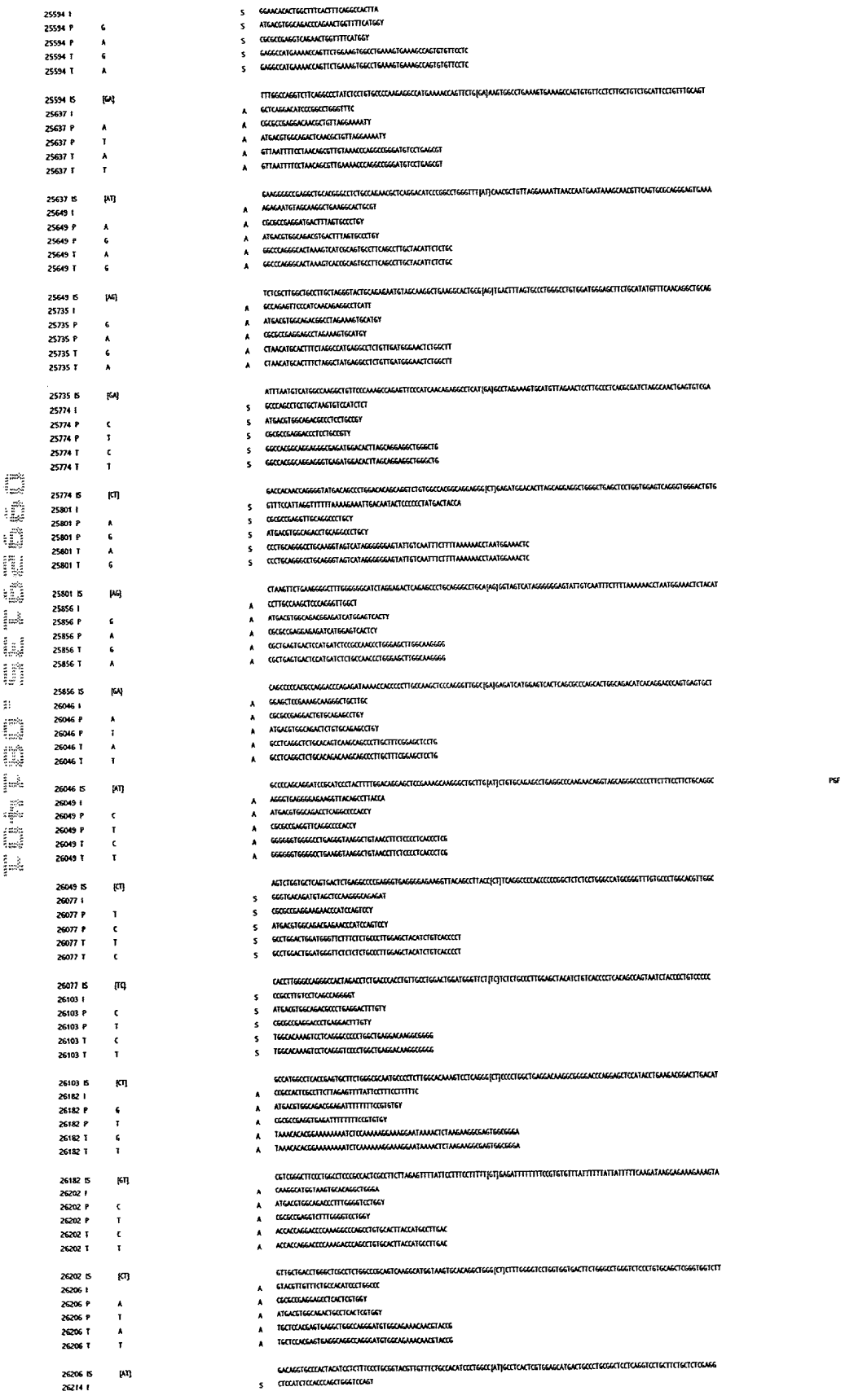


FIGURE 129F

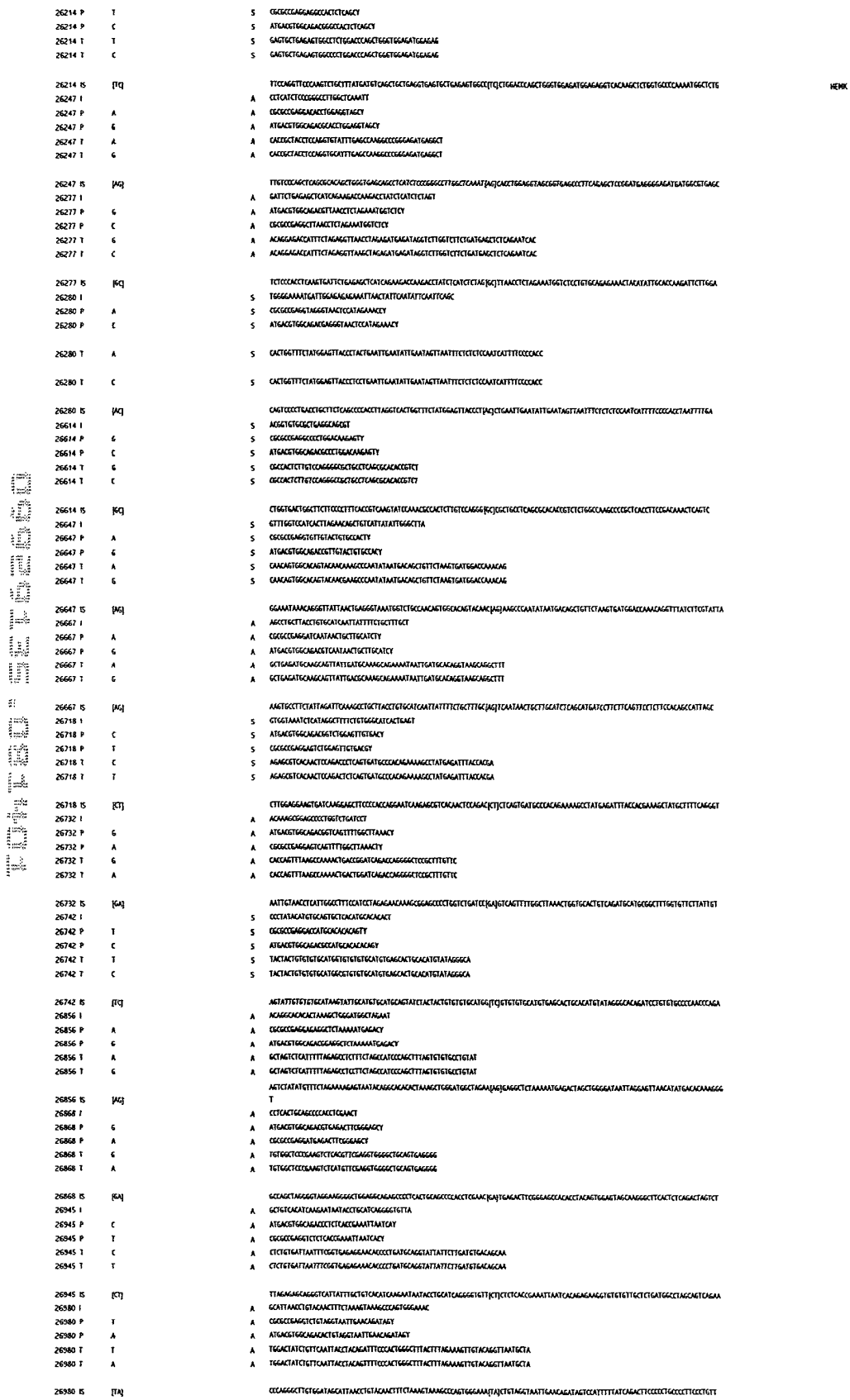

26214 P T S CGCGCCGAGGAGGCCACTCTCAGCY
26214 P C S ATGAGTGGCAGACGGGCCACTCTCAGCY
26214 T T S GAGTGCTGAGAGTGGCCCTCTGGACCCAGCTGGGTGGAGATGGAGAG
26214 T C S GAGTGCTGAGAGTGGCCCCTGGACCCAGCTGGGTGGAGATGGAGAG
26214 IS [TC] TTCCAGGTTCCCAAGTCTGCTTTATGATGTCAGCTGCTGAAGTGAGTGCTGAGAGTGGCC[TC]CTGGACCCAGCTGGGTGGAGATGGAGAGGTCACAAGCTCTGGTGCCCCAAAATGGCTCTG HEMK
26247 I A CCTCATCTCCCGGGCCTTGGCTCAAATT
26247 P A A CGCGCCGAGGAGACCTGGAGGTAGCY
26247 P G A ATGACGTGGCAGAGGCACCTGGAGGTAGCY
26247 T A A CACCGCTACCTCCAGGTGTATTTGAGCCAAGGCCCGGGAGATGAGGCT
26247 T G A CACCGCTACCTCCAGGTGCATTTGAGCCAAGGCCCGGGAGATGAGGCT
26247 IS [AG] TTGTCCCAGCTCAGCGCACAGCTGGGTGAGCAGCCTCATCTCCCGGGCCTTGGCTCAAAT[AG]CACCTGGAGGTAGCGGTGAGCCCTTCAGAGCTCCGGATGAGGGCAGATGATGGCGTGAGC
26277 I A GATTCTGAGAGCTCATCAGAAGACCAAGACCTATCTCATCTCTAGT
26277 P G A ATGACGTGGCAGAGGTTAACCTCTAGAAATGGTCTCY
26277 P C A CGCGCCGAGGCTTAACCTCTAGAAATGGTCTCY
26277 T G A ACAGGAGACCATTTCTAGAGGTTAACCTAGAGATGAGATAGGTCTTGGTCTTCTGATGAGCTCTCAGAATCAC
26277 T C A ACAGGAGACCATTTCTAGAGGTTAAGCTAGAGATGAGATAGGTCTTGGTCTTCTGATGAGCTCTCAGAATCAC
26277 IS [GC] TCTCCCACCTCAAGTGATTCTGAGAGCTCATCAGAAGACCAAGACCTATCTCATCTCTAG[GC]TTAACCTCTAGAAATGGTCTCCTGTGCAGAGAAACTACATATTGCACCAAGATTCTTGGA
26280 I S TGGGGAAAATGATTGGAGAGAGAAATTAACTATTCAATATTCAATTCAGC
26280 P A S CGCGCCGAGGTAGGGTAACTCCATAGAAACY
26280 P C S ATGACGTGGCAGAGGAGGGTAACTCCATAGAAACY
26280 T A S CACTGGTTTCTATGGAGTTACCCTACTGAATTGAATATTGAATAGTTAATTTCTCTCTCCAATCATTTCCCCACC
26280 T C S CACTGGTTTCTATGGAGTTACCCTCCTGAATTGAATATTGAATAGTTAATTTCTCTCTCCAATCATTTCCCCACC
26280 IS [AC] CAGTCCCCTGACCTGCTTCTCAGCCCCACCTTAGGTCACTGGTTTCTATGGAGTTACCCT[AC]CTGAATTGAATATTGAATAGTTAATTTCTCTCTCCAATCATTTCCCCACCTAATTTTGA
26614 I S ACGGTGTGCGCTGAGGCAGCGT
26614 P G S CGCGCCGAGGCCCCTGGACAAGAGTY
26614 P C S ATGACGTGGCAGAGGCCCTGGACAAGAGTY
26614 T G S CGCCACTCTTGTCCAGGGCCGCTGCCTCAGCGCACACCGTCT
26614 T C S CGCCACTCTTGTCCAGGGCCGCTGCCTCAGCGCACACCGTCT
26614 IS [GC] CTGGTGACTGGCTTCTTCCCCTTTCACCGTCAAGTATCCAACGCCACTCTTGTCCAGGG[GC]CGCTGCCTCAGCGCACACCGTCTCTGGCCAAGCCCGCTCACCTTCCGACAAACTCAGTC
26647 I S GTTTGGTCCATCACTTAGAACAGCTGTCATTATATATTGGGCTTA
26647 P A S CGCGCCGAGGTGTTGTACTGTGCCACTY
26647 P G S ATGACGTGGCAGACCGTTGTACTGTGCCACY
26647 T A S CAACAGTGGCAGAGTACAACAAAGCCCAATATAATGACAGCTGTTCTAAGTGATGGACCAAACAG
26647 T G S CAACAGTGGCACAGTACAACGAAGCCCAATATAATGACAGCTGTTCTAAGTGATGGACCAAACAG
26647 IS [AG] GGAAATAAACAGGGTTATTAACTGAGGGTAAATGGTCTGCCAACAGTGGCACAGTACAAC[AG]AAGCCCAATATAATGACAGCTGTTCTAAGTGATGGACCAAACAGGTTTATCTTCGTATTA
26667 I A AGCCTGCTTACCTGTGCATCAATTATTTTCTGCTTTGC[AG]TCAATAACTGCTTGCATCTCAGCATGATCCTCTTCAGTTCCTCTTCCACAGCCATTAGC
26667 P A A CGGCCGAGGATCAATAACTGCTTGCATCTY
26667 P G A ATGACGTGGCAGACGTCAATAACTGCTTGCATCY
26667 T A A GCTGAGATGCAAGCAGTTATTGATGCAAAGCAGAAAATAATTGATGCACAGGTAAGCAGCCTT
26667 T G A GCTGAGATGCAAGCAGTTATTGACGCAAAGCAGAAAATAATTGATGCACAGGTAAGCAGCCTT
26667 IS [AG] AAGTGCCTTCTATTAGATTCAAAGCCTGCTTACCTGTGCATCAATTATTTTCTGCTTTGC[AG]TCAATAACTGCTTGCATCTCAGCATGATCCTCTTCAGTTCCTCTTCCACAGCCATTAGC
26718 I S GTGGTAAATCTCATAGGCTTTTCTGTGGGCATCACTGAGT
26718 P C S ATGACGTGGCAGACGGTCTGGAGTTGTGACY
26718 P T S CGCGCCGAGGAGTCTGGAGTTGTGACGY
26718 T C S AGAGGCTCACAACTCCAGACCTCAGTGATGCCCACAGAAAAGCCTATGAGATTTACCACGA
26718 T T S AGAGCGTCACAACTCCAGACTCTCAGTGATGCCCACAGAAAAGCCTATGAGATTTACCACGA
26718 IS [CT] CTTGGAGGAAGTGATCAAGGAGCTTCCCCACCAGGAATCAAGAGCGTCACAACTCCAGAC[CT]CTCAGTGATGCCCACAGAAAAGCCTATGAGATTTACCACGAAAGCTATGCTTTTCAGGGT
26732 I A ACAAAGCGGAGCCCCTGGTCTGATCCT
26732 P G A ATGACGTGGCAGACGGTCAGTTTTGGCTTAAACY
26732 P A A CGCGCCGAGGAGTCAGTTTTGGCTTAAACTY
26732 T G A CACCAGTTTAAGCCAAAACTGACCGGATCAGACCAGGGGCTCCGCTTTGTTC
26732 T A A CACCAGTTTAAGCCAAAACTGACTGGATCAGACCAGGGGCTCCGCTTTGTTC
26732 IS [GA] AATTGTAACCTCATTGGCTTTCCATCCTACAGAACAAGCGGAGCCCCTGGTCTGATCC[GA]GTCAGTTTTGGCTTAAACTGGTGCACTGTCAGATGCATGCGGCTTTGGTGTTCTTATTGT
26742 I S CCCTATACATGTGCAGTGCTCACATGCACACACT
26742 P T S CGCGCCGAGGAGCCATGCACACACAGTY
26742 P C S ATGACGTGGCAGACGCCATGCACACACAGY
26742 T T S TACTACTGTGTGTGCATGGTGTGTGCATGTGAGCACTGCACATGTATAGGGCA
26742 T C S TACTACTGTGTGTGCATGGCGTGTGTGCATGTGAGCACTGCACATGTATAGGGCA
26742 IS [TC] AGTATTGTGTGTGCATAAGTATTGCATGTGCATGCAGTATCTACTACTGTGTGTGCATGG[TC]GTGTGTGTGCATGTGAGCACTGCACATGTATAGGGCACAGATCCTGTGTGCCCAACCCAGA
26856 I A ACAGGCAACACACTAAAGCTGGGATGGCTAGAAT
26856 P A A CGCGCCGAGGAGAGGCTCTAAAAATGAGACY
26856 P G A ATGACGTGGCAGACGGAGGCTCTAAAAATGAGACY
26856 T A A GCTAGTCTCATTTTTAGAGCCTCTTTCTAGCATCCCAGCTTTAGTGTGTGCCTGTAT
26856 T G A GCTAGTCTCATTTTTAGAGCCTCCTTCTAGCATCCCAGCTTTAGTGTGTGCCTGTAT
26856 IS [AG] AGTCTATATGTTTCTAGAAAAGAGTAATACAGGCACACACTAAAGCTGGGATGGCTAGAA[AG]GAGGCTCTAAAAATGAGACTAGCTGGGGATAATTAGGAGTTAACATATGACACAAAGGG
T
26868 I A CCTCACTGCAGCCCCACCTCGAACT
26868 P G A ATGACGTGGCAGACGTCAGACTTCGGGAGCY
26868 P A A CGCCCCGAGGATGAGACTTCGGGAGCY
26868 T G A TGTGGCTCCCGAAGTCTCATGTTCGAGGTGGGGCTGCAGTGAGGGG
26868 T A A TGTGGCTCCCGAAGTCTCATGTTCGAGGTGGGGCTGCAGTGAGGGG
26868 IS [GA] GCCAGCTAGGGGTAGGAAGGGGCTGGAGGCAGAGCCCCTCACTGCAGCCCCACCTCGAAC[GA]TGAGACTTCGGGAGCCACACCTACAGTGGAGTAGCAAGGGCTTCACTCTCAGACTAGTCT
26945 I A GCTGTCACATCAAGAATAATACCTGCATCAGGGGTGTTA
26945 P C A ATGACGTGGCAGACCCTCTCACCGAAATTAATCAY
26945 P T A CGCGCCGAGGTCTCTCACCGAAATTAATCACY
26945 T C A CTCTGTGATTAATTTCGGTGAGAGAACACCCCTGATGCAGGTATTATTCTTGATGTGACAGCAA
26945 T T A CTCTGTGATTAATTTCGGTGAGAGAACACCCCTGATGCAGGTATTATTCTTGATGTGACAGCAA
26945 IS [CT] TTAGAGAGCAGGGTCATTATTTGCTGTCACATCAAGAATAATACCTGCATCAGGGGTGTT[CT]CTCTCACCGAAATTAATCACAGAGAAGGTGTGTGTTGCTCTGATGCCTAGCAGTCAGAA
26980 I A GCATTAACCTGTACAACTTTCTAAAGTAAAGCCCAGTGGGAAAC
26980 P T A CGCGCCGAGGTCTGTAGGTAATTGAACAGATAGY
26980 P A A ATGACGTGGCAGACACTGTAGGTAATTGAACAGATAGY
26980 T T A TGGACTATCTGTTCAATTACCTACAGATTTCCCACTGGGCTTTACTTTAGAAAGTTGTACAGGTTAATGCTA
26980 T A A TGGACTATCTGTTCAATTACCTACAGTTTCCCACTGGGCTTTACTTTAGAAAGTTGTACAGGTTAATGCTA
26980 IS [TA] CCCAGGGCTTGTGGATAGCATTAACCTGTACAACTTTCTAAAGTAAAGCCCAGTGGGAAA[TA]CTGTAGGTAATTGAACAGATAGTCCATTTTTATCAGACTTCCCCCTGCCCCTTCCCTGTT

FIGURE 129F

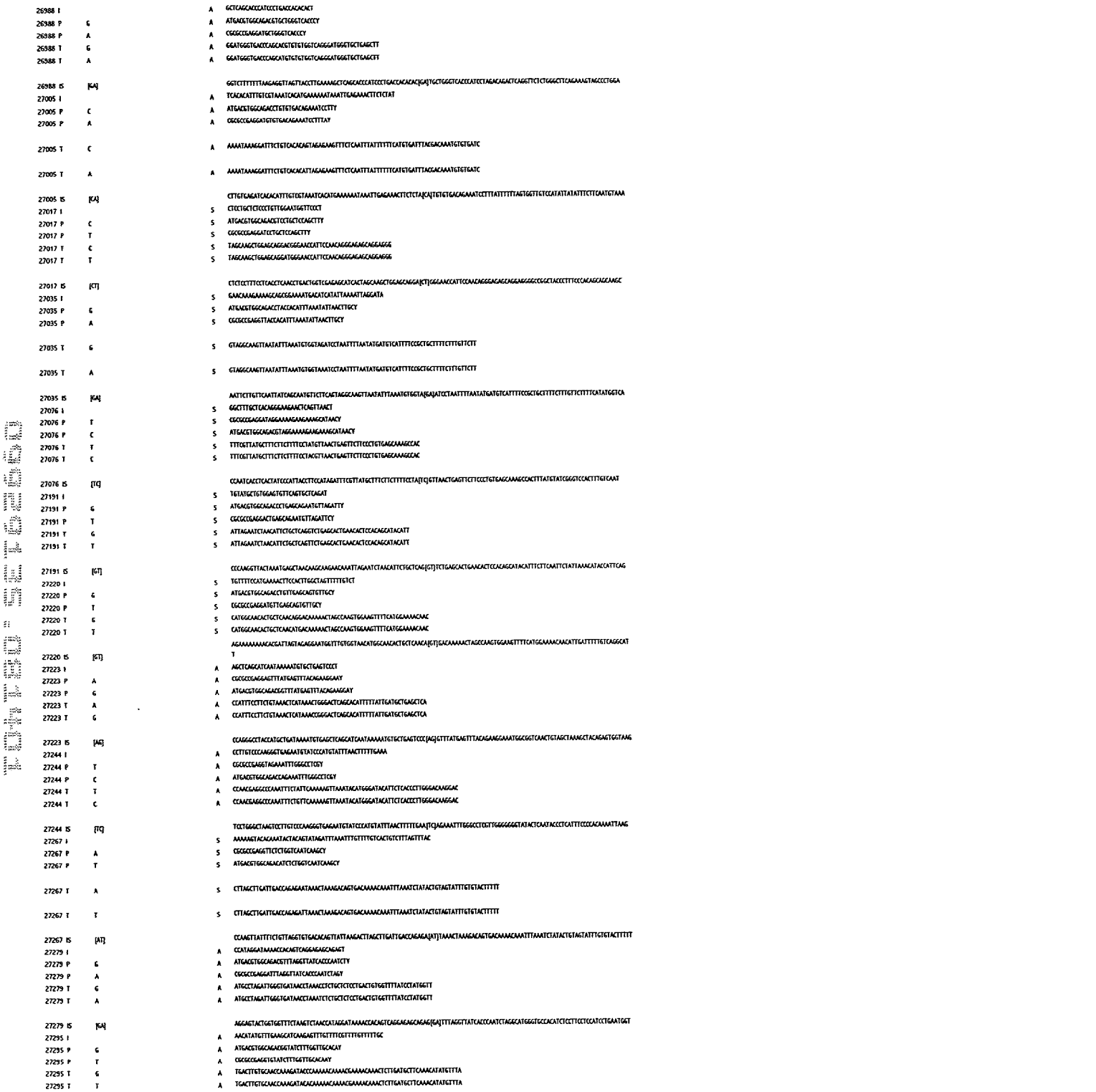


FIGURE 129F

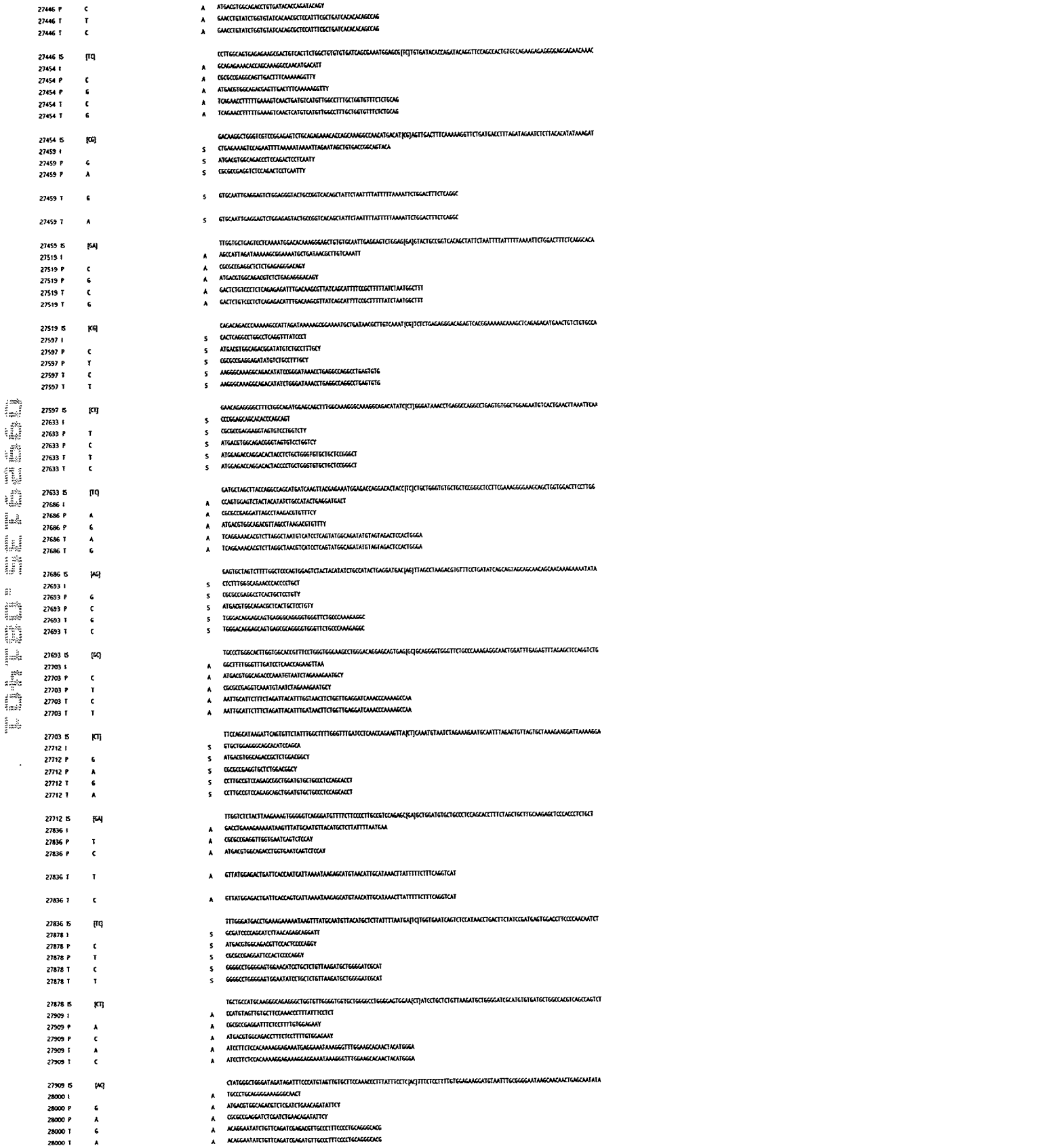

27446 P C A ATGACGTGGCAGAACCTGTGATACACCAGATACAGY
27446 T T A GAACCTGTATCTGGTGTATCACAACGCTCCATTTCGCTGATCACACACAGCCAG
27446 T C A GAACCTGTATCTGGTGTATCACAGGCTCCATTTCGCTGATCACACACAGCCAG
27446 IS [TC] CCTTGGCAGTGAGAGAAGCGACTGTCACTTCTGGCTGTGTGTGATCAGCGAAATGGAGGS[TC]TGTGATACACCAGATACAGGTTCCAGCCACTGTGCCAGAAGACAGGGGAGGAGACAAAC
27454 I A GCAGAGAAACACCAGCAAGGCCAACATGACATT
27454 P C A CGCGCCCAGGCAGTTGACTTTCAAAAAGGTTY
27454 P G A ATGACGTGGCAGACAGTTGACTTTCAAAAAGGTTY
27454 T C A TCAGAACCTTTTTGAAAGTCAACTGATGTCATGTTGGCCTTTGCTGGTGTTTCTCTGCAG
27454 T G A TCAGAACCTTTTTGAAAGTCAACTCATGTCATGTTGGCCTTTGCTGGTGTTTCTCTGCAG
27454 IS [CG] GACAAGGCTGGGTCGTCCGGAGAGTCTGCAGAGAAACACCAGCAAAGCCAACATGACAT[CG]AGTTGACTTTCAAAAAGTTCTGATGACCTTTAGATAGAATCTCTTACACATATAAAGAT
27459 I S CTGAGAAAGTCCAGAATTTTAAAAATAAAATTAGAATAGCTGTGACCGGCAGTACA
27459 P G S ATGACGTGGCAGACCCTCCAGACTCCTCAATY
27459 P A S CGCGCCGAGGTCTCCAGACTCCTCAATTY
27459 T G S GTGCAATTGAGGAGTCTGGAGGGTACTGCCGGTCACAGCTATTCTAATTTTATTTTTAAAATTCTGGACTTTCTCAGGC
27459 T A S GTGCAATTGAGGAGTCTGGAGAGTACTGCCGGTCACAGCTATTCTAATTTTATTTTTAAAATTCTGGACTTTCTCAGGC
27459 IS [GA] TTGGTGCTGAGTCCTCAAAATGGACACAAAGGGAGCTGTGTGCAATTGAGGAGTCTGGAG[GA]GTACTGCCGGTCACAGCTATTCTAATTTTATTTTTAAAATTCTGGACTTTCTCAGGCACA
27515 I A AGCCATTAGATAAAAAGCGGAAAATGCTGATAACGCTTGTCAAATT
27519 P C A CGCGCCGAGGCTCTCTGAGAGGGACAGY
27519 P G A ATGACGTGGCAGACGTCTCTGAGAGGGACAGY
27519 T C A GACTCTGTCCCTCTCAGAGAGATTTGACAAGGGTTATCAGCATTTTCCGCTTTTTATCTAATGGCTTT
27519 T G A GACTCTGTCCCTCTCAGAGACATTTGACAAGCGTTATCAGCATTTTCCGCTTTTTATCTAATGGCTTT
27519 IS [CG] CAGACAGACCCAAAAAGCCATTAGATAAAAAGCGGAAAATGCTGATAACGCTTGTCAAAT[CG]TCTCTGAGAGGGACAGAGTCACGGAAAAACAAAGCTCAGAGACATGAACTGTCTGTGCCA
27597 I S CACTCAGGCCTGGCCTCAGGTTTATCCCT
27597 P C S ATGACGTGGCAGACGGATATGTCTGCCTTTGCY
27597 P T S CGCGCCGAGGAGATATGTCTGCCTTTGCY
27597 T C S AAGGGCAAAGGCAGACATATCCGGGATAAACCTGAGGCCAGGCCTGAGTGTG
27597 T T S AAGGGCAAAGGCAGACATATCTGGGATAAACCTGAGGCCAGGCCTGAGTGTG
27597 IS [CT] GAACAGAGGGGCTTCTGGCAGATGGAGCAGCTTTGGCAAAGGCAAAGGAGACATATC[CT]GGGATAAACCTGAGGCCAGGCCTGAGTGTGGCTGGAGAATGTCACTGAACTAAATTCAA
27633 I S CCCGGAGCAGCACACCCAGCAGT
27633 P T S CGCGCCGAGGAGGTAGTGTCCTGGTCTY
27633 P C S ATGACGTGGCAGACGGGTAGTGTCCTGGTCT
27633 T T S ATGGAGACCAGGACACTACCTCTGCTGGGTGTGCTGCTCCGGGCT
27633 T C S ATGGAGACCAGGACACTACCCTGCTGGGTGTGCTGCTCCGGGCT
27633 IS [TC] GATGCTAGCTTACCAGGCCAGCATGATCAAGTTACGAGAAATGGAGACCAGGACACTACC[TC]CTGCTGGGTGTGCTGCTCCGGGCTCCTTCGAAAGGGCAAGCAGCTGGTGGACTTCCTTGG
27686 I A CCAGTGCAGTCTACTACATATCTGCCATACTGAGGATGACT
27686 P A A CGCGCCGAGGATTAGCCTAAGACGTGTTTCY
27686 P G A ATGACGTGGCAGACGTTAGCCTAAGACGTGTTTY
27686 T A A TCAGGAAACACGTCTTAGGCTAATGTCATCCTCAGTATGGCAGATATGTAGTAGACTCCACTGGGA
27686 T G A TCAGGAAACACGTCTTAGGCTAACGTCATCCTCAGTATGGCAGATATGTAGTAGACTCCACTGGGA
27686 IS [AG] GAGTGCTAGTCTTTTGGCTCCCAGTGGAGTCTACTACATATCTGCCATACTGAGGATGAC[AG]TTAGCCTAAGACGTGTTTCCTGATATCAGCAGTAGCAGCAACAGCAACAAAGAAAATATA
27693 I S CTCTTTGGGCAGAACCACCCCTGCT
27693 P G S CGCGCCGAGGCCTCACTGCTCCTGTY
27693 P C S ATGACGTGGCAGACGCTCACTGCTCCTGTY
27693 T G S TGGGACAGGAGCAGTGAGGGCAGGGGTGGGTTCTGCCCAAAGAGGC
27693 T C S TGGGACAGGAGCAGTGAGGGCAGGGGTGGGTTCTGCCCAAAGAGGC
27693 IS [GC] TGCCGTGGGCACTTGGTGGCACCGTTTCCTGGGTGGGAAGCCTGGGACAGGAGCAGTGAG[GC]GCAGGGGTGGGTTCTGCCCAAAGAGGCAACTGGATTTGAGAGTTTAGAGCTCCAGGTCTG
27703 I A GGCTTTTGGGTTTGATCCTCAACCAGAAGTTAA
27703 P C A ATGACGTGGCAGACCCAAATGTAATCTAGAAAGAATGCY
27703 P T A CGCGCCGAGGTCAAATGTAATCTAGAAAGAATGCY
27703 T C A AATTGCATTCTTTCTAGATTACATTTGGTAACTTCTGGTTGAGGATCAAACCCAAAAGCCAA
27703 T T A AATTGCATTCTTTCTAGATTACATTTGATAACTTCTGGTTGAGGATCAAACCCAAAAGCCAA
27703 IS [CT] TTCCAGCATAAGATTCAGTGTTCTATTTGGCTTTTGGGTTTGATCCTCAACCAGAAGTTA[CT]CAAATGTAATCTAGAAAGAATGCAATTTAGAGTGTTAGTGCTAAAGAAGGATTAAAAGGA
27712 I S GTGCTGGAGGGCAGCACATCCAGCA
27712 P G S ATGACGTGGCAGACCGCTCTGGACGGCT
27712 P A S CGCGCCGAGGTGCTCTGGACGGCY
27712 T G S CCTTGCCGTCCAGAGCGGCTGGATGTGCTGCCCTCCAGCACCT
27712 T A S CCTTGCCGTCCAGAGCAGCTGGATGTGCTGCCCTCCAGCACCT
27712 IS [GA] TTGGTCTCTACTTAAGAAAGTGGGGGTCAGGGATGTTTTCTTCCCCTTGCCGTCCAGAGC[GA]GCTGGATGTGCTGCCCTCCAGCACCTTTCTAGCTGCTTGCAAGAGCTCCCACCCTCTGCT
27836 I A GACCTGAAAGAAAAATAAGTTTATGCAATGTTACATGCTCTTATTTAATGAA
27836 P T A CGCGCCGAGGTTGGTGAATCAGTCTCCAY
27836 P C A ATGACGTGGCAGACCTGGTGAATCAGTCTCCAY
27836 T T A GTTATGGAGACTGATTCACCAATCATTAAAATAAGAGCATGTAACATTGCATAAACTTATTTTTCTTTCAGGTCAT
27836 T C A GTTATGGAGACTGATTCACCAGTCATTAAAATAAGAGCATGTAACATTGCATAAACTTATTTTTCTTTCAGGTCAT
27836 IS [TC] TTTGGGATGACCTGAAAGAAAAATAAGTTTATGCAATGTTACATGCTCTTATTTTAATGA[TC]TGGTGAATCAGTCTCCATAACCTGACTTCTATCCGATGAGTGGACCTTCCCCAACAATCT
27878 I S GCGATCCCCAGCATCTTAACAGAGCAGGATT
27878 P C S ATGACGTGGCAGACGTTCCACTCCCCAGGY
27878 P T S CGCGCCGAGGATTCCACTCCCCAGGY
27878 T C S GGGGCCTGGGGAGTGGAACATCCTGCTCTGTTAAGATGCTGGGGATCGCAT
27878 T T S GGGGCCTGGGGAGTGGAATATCCTGCTCTGTTAAGATGCTGGGGATCGCAT
27878 IS [CT] TGCTGCCATGCAAGGGCAGAGGGCTGGTGTTGGGGTGGTGCTGGGGCCTGGGGAGTGGAAG[CT]ATCCTGCTCTGTTAAGATGCTGGGGATCGCATGTGTGATGCTGGGCCACGTCAGCCAGTCT
27909 I A CCATGTAGTTGTGCTTCCAAACCCTTTATTTCCTCT
27909 P A A CGCGCCGAGGATTTCTCCTTTTGTGGAGAAY
27909 P C A ATGACGTGGCAGACCTTTCTCCTTTTGTGGAGAAY
27909 T A A ATCCTTCTCCACAAAAGGAGAAAGAGAAATAAAGGTTTGGAAGCACAACTACATGGGA
27909 T C A ATCCTTCTCCACAAAAGGAGAAAGCAGGAAATAAAGGTTTGGAAGCACAACTACATGGGA
27909 IS [AC] CTATGGGGCTGGGATAGATAGATTTCCCATGTAGTTGTGCTTCCAAACCCTTTATTTCCTC[AC]TTTCTCCTTTTGTGGAGAAGGATGTAATTTGCGGGGAATAAGCAACAACTGAGCAATATA
28000 I A TGCCCTGCAGGGGAAAGGCAACT
28000 P G A ATGACGTGGCAGACGTCTCGATCTGAACAGATATTCY
28000 P A A CGCGCCGAGGATCTCGATCTGAACAGATATTCY
28000 T G A ACAGGAATATCTGTTCAGATCGAGAGGTTGCCCTTTCCCCTGCAGGGCACG
28000 T A A ACAGGAATATCTGTTCAGATCGAGATGTTGCCCTTTCCCCTGCAGGGCACG

FIGURE 129F

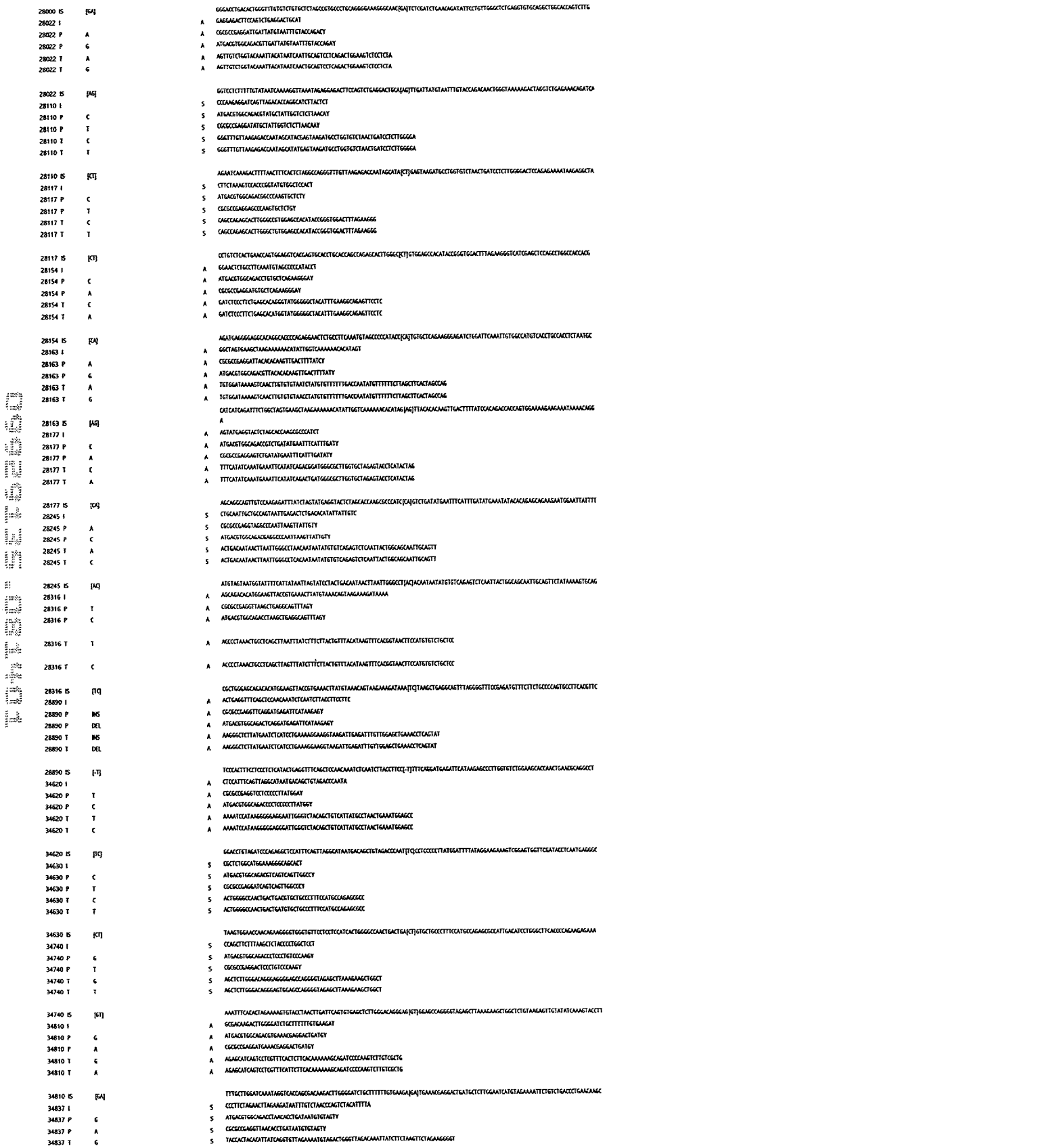


FIGURE 129F

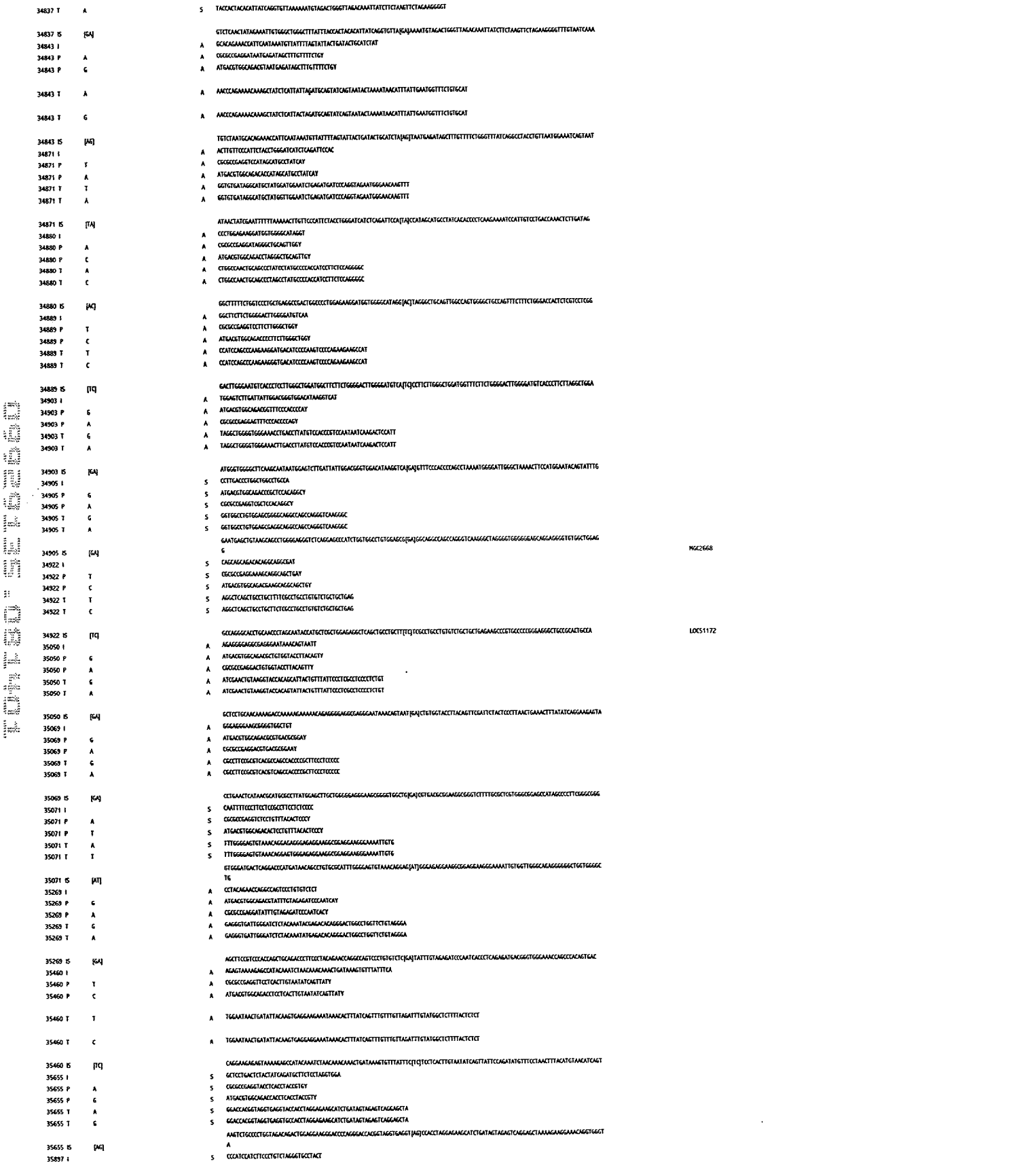


FIGURE 129F

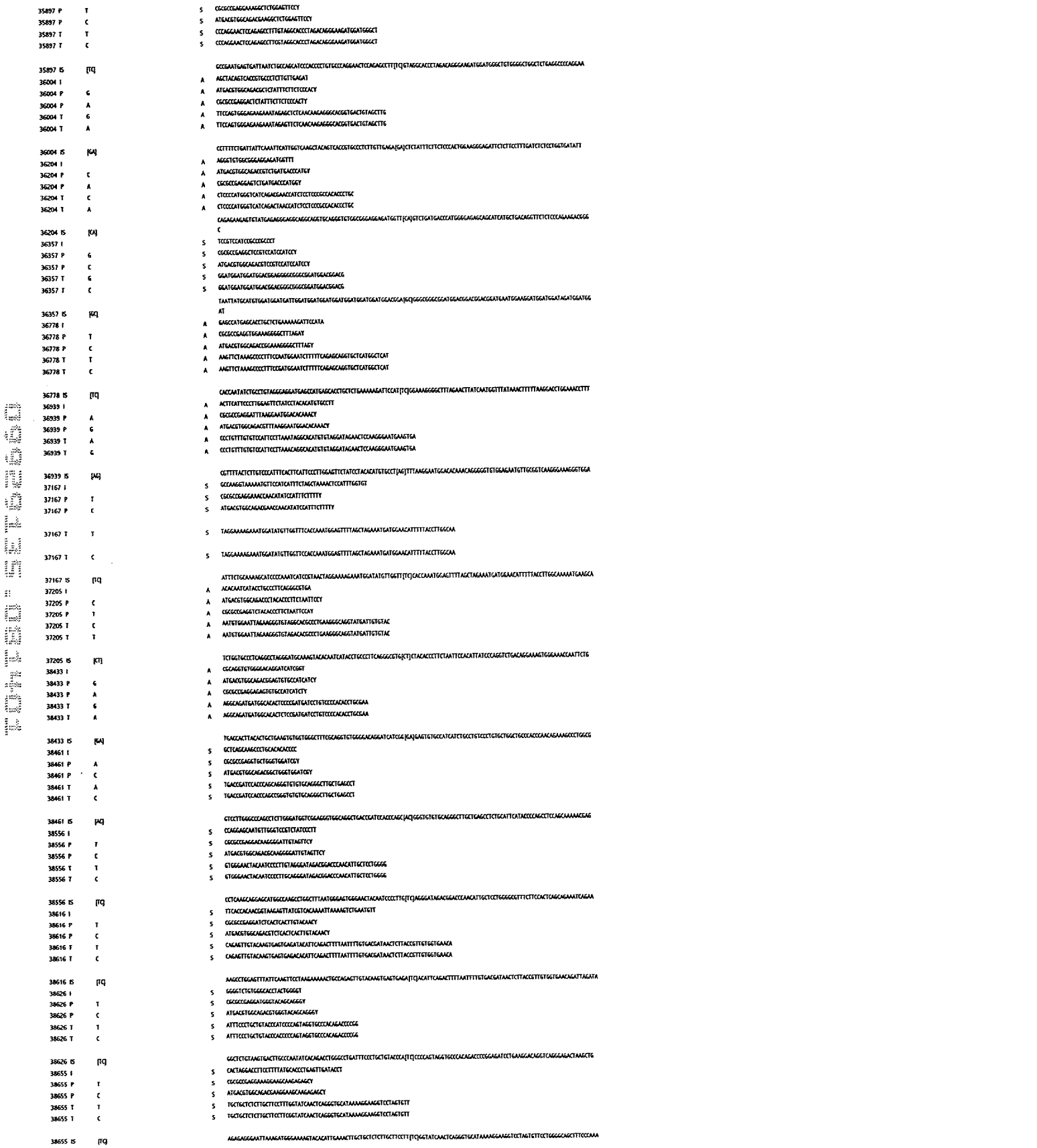
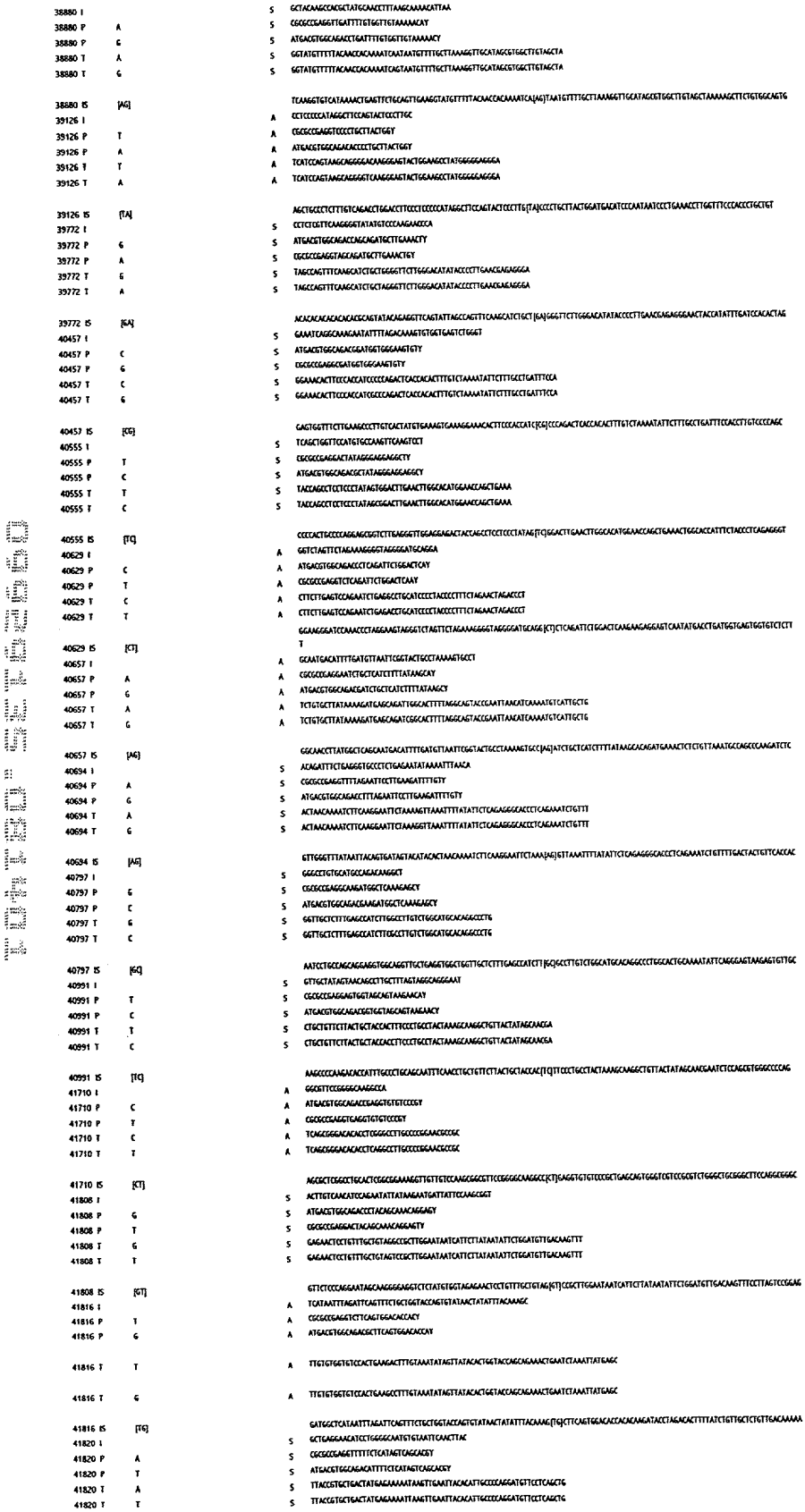

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35897 T T S CCCAGGAACTCCAGAGCCTTGTAGGCACCCTAGACAGGGAAGATGGATGGGCT
35897 T C S CCCAGGAACTCCAGAGCCTTGGTAGGCACCCTAGACAGGGAAGATGGATGGGCT
35897 IS [TC] GCCGAATGAGTGATTAATCTGCCAGCATCCCACCCCTGTGCCCAGGAACTCCAGAGCCTT[TC]GTAGGCACCCTAGACAGGGAAGATGGATGGGCTGTGGGCCTGGCTCTGAGCCCCAGGAA
36004 I A AGCTACAGTCACCGTGCCCTCTTGTTGAGAT
36004 P G A ATGACGTGGCAGACGCTCTATTTCTCTCCCACY
36004 P A A CGCGCCGAGGACTCTATTTCTCTCCCACTY
36004 T G A TTCCAGTGGGAGAAGAAATAGAGCTCTCAACAAGAGGCACGGTGACTGTAGCTTG
36004 T A A TTCCAGTGGGAGAAGAAATAGAGTTCTCAACAAGAGGGCACGGTGACTGTAGCTTG
36004 IS [GA] CCTTTTCTGATTATTCAAATTCATTGGTCAAGCTACAGTCACCGTGCCCTCTTGTTGAGA[GA]CTCTATTTCTCTCCCACTGGAAGGGAGATTCTCTTCCTTTGATCTCTCCTGGTGATATT
36204 I A AGGCTGTGGCGGGAGCAGAGATGGTTT
36204 P C A ATGACGTGGCAGACGTCTGATGACCCATGY
36204 P A A CGCGCCGAGGAGTCTGATGACCCATGGY
36204 T C A CTCCCCATGGGTCATCAGAGCAACCATCTCCTCCCGCCACACCCTGC
36204 T A A CTCCCCATGGGTCATCAGACTAACCATCTCCTCCCGCCACACCCTGC
36204 IS [CA] CAGAGAAGAGTCTATAGAGAGGCAGCAGGCAGGTGCAGGGTGTGGCGGGAGGAGATGGTT[CA]GTCTGATGACCCATGGGGAGAGCAGCATCATGCTGACAGGTTCTCTCCCAGAAGACGGGC
36357 I S TCCGTCCATCCGCCCGCCCT
36357 P G S CGCGCCGAGGCTCCGTCCATCCATCCY
36357 P C S ATGACGTGGCAGACGTCCGTCCATCCATCCY
36357 T G S GGATGGATGGATGGACGGAGGGGCGGGCGGATGGACGGACG
36357 T C S GGATGGATGGATGGACGGACGGGCGGGCGGATGGACGGACG
36357 IS [GC] TAATTATGCATGTGGATGGATGATTGGATGGATGGATGGATGGATGGATGCGACGGA[GC]GGGCGGGCGGATGGACGGACGGACGGATGAATGGAAGGATGGATGGATAGATGGATGG
36778 I A GAGCCATGAGCAACTGCTCTGAAAAAGATTCCATA
36778 P T A CGCGCCGAGGTGGAAAGGGGCTTTAGAY
36778 P C A ATGACGTGGCAGACCGGAAAGGGGCTTTAGY
36778 T T A AAGTTCTAAAGCCCCTTTCCGATGGAATCTTTTTCAGAGCAGGTGCTCATGGCTCAT
36778 T C A AAGTTCTAAAGCCCCTTTCCGATGGAATCTTTTTCAGAGCAGGTGCTCATGGCTCAT
36778 IS [TC] CACCAATATCTGCCTGTAGGGAGGATGAGCCATGAGCACCTGCTCTGAAAAAGATTCCAT[TC]GGAAAGGGGCTTTAGAACTTATCAATGGTTTATAAACTTTTTAAGCACTGGAAACCTTT
36939 I A ACTTCATTCCCTTGGAGTTCTATCCTACACATGTGCCTT
36939 P A A CGCGCCGAGGATTTAAGCAATGGACACAAACY
36939 P G A ATGACGTGGCAGACGTTTAAGCAATGGACACAAACY
36939 T A A CCCTGTTTGTGTCCATTCCTTAAATAGGCACATGTGTAGGATAGAACTCCAAGGGAATGAAGTGA
36939 T G A CCCTGTTTGTGTCCATTCCTTAAACAGGCACATGTGTAGGATAGAACTCCAAGGGAATGAAGTGA
36939 IS [AG] CGTTTTACTCTTGTCCCATTTCACTTCATTCCCTTGGAGTTCTATCCTACACATGTGCCT[AG]TTTAAGGAATGGCACACAAACAGGGGGTGTGGAGAATGTTGCGGTCAAGGGAAAGGGTGGA
37167 I S GCCAAGGTAAAAATGTTCCATCATTTCTAGCTAAAACTCCATTTGGTGT
37167 P T S CGCGCCGAGGAAACCAACATATCCATTTCTTTTY
37167 P C S ATGACGTGGCAGACGAACCAACATATCCATTTCTTTTY
37167 T T S TAGGAAAAGAAATGGATATGTTGGTTTCACCAAATGGAGTTTTAGCTAGAAATGATGGAACATTTTTACCTTGGCAA
37167 T C S TAGGAAAAGAAATGGATATGTTGGTTCCACCAAATGGAGTTTTAGCTAGAAATGATGGAACATTTTTACCTTGGCAA
37167 IS [TC] ATTTCTGCAAAAGCATCCCCAAATCATCCCTAACTAGGAAAAGAAATGGATATGTTGGTT[TC]CACCAAATGCAGTTTTAGCTAGAAATGATGGAACATTTTTACCTTGGCAAAAATGAAGCA
37205 I A ACACAATCATACCTGCCCTTCAGGGCGTGA
37205 P C A ATGACGTGGCAGACCCTACACCCTTCTAATTCCY
37205 P T A CGCGCCGAGGTCTACACCCTTCTAATTCCAY
37205 T C A AATGTGGAATTAGAAGGGTGTAGGCACGCCCTGAAGGGCAGGTATGATTGTGTAC
37205 T T A AATGTGGAATTAGAAGGGTGTAGACACGCCCTGAAGGGCAGGTATGATTGTGTAC
37205 IS [CT] TCTGGTGCCCTCAGGCCTAGGGATGCAAAGTACACAATCATACCTGCCCTTCAGGGCGT[CT]CTACACCCTTCTAATTCCACATTATCCCAGGTCTGACAGGAAAGTGGGAAACCAATTCTG
38433 I A CGCAGGTGTGGGGACAGGATCATCGGT
38433 P G A ATGACGTGGCAGACGGAGTGTGCCATCATCY
38433 P A A CGCGCCGAGGACAGAGTGTGCCATCATCTY
38433 T G A AGGCAGATGATGGCACACTCCCCGATGATCCTGTCCCCACACCTGCGAA
38433 T A A AGGCAGATGATGGCACACTCTCCGATGATCCTGTCCCCACACCTGCGAA
38433 IS [GA] TGAGCACTTACACTGCTGAAGTGTGGTGGGCTTTCGCAGGTGTGGGGACAGGATCATCGG[GA]GAGTGTGCCATCATCTGCCTGTCCCTGTGCTGGCTGCCCACCCAACAGAAAGCCCTGGCG
38461 I S GCTCAGCAAGCCCTGCACACACCCC
38461 P A S CGCGCCGAGCTGCTGGGTGGATCGY
38461 P C S ATGACGTGGCAGACGGCTGGGTGGATCGY
38461 T A S TGACCGATCCACCCAGCAGGGTGTGTGCAGGGCTTGCTGAGCCT
38461 T C S TGACCGATCCACCCAGCCGGGTGTGTGCAGGGCTTGCTGAGCCT
38461 IS [AC] GTCCTTGGGCCCAGCCTCTTGGGATGGTCGGAGGGTGGCAGGCTGACCGATCCACCCAGC[AC]GGGTGTGTGCAGGGCTTGCTGAGCCTCTGCATTCATACCCCAGCCTCCAGCAAAACGAG
38556 I S CCAGGAGCAATGTTGGGTCCGTCTATCCCTT
38556 P T S CGCGCCGAGGACAAGGGGATTGTAGTTCY
38556 P C S ATGACGTGGCAGACGCAAGGGGATTGTAGTTCY
38556 T T S GTGGGAACTACAATCCCCTTGTAGGGATAGACGGACCCAACATTGCTCCTGGGG
38556 T C S GTGGGAACTACAATCCCCTTGCAGGGATAGACGGACCCAACATTGCTCCTGGGG
38556 IS [TC] CCTCAAGCAGCAGCATGGCCAAGCCTGGCTTTAATGGGAGTGGGAACTACAATCCCCTTG[TC]AGGGATAGACGGACCCAACATTGCTCCTGGGGGGTTTCTTCCACTCAGCAGAAATCAGAA
38616 I S TTCACCACAACGGTAAGAGTTATCGTCACAAATTAAAAGTCTGAATGTT
38616 P T S CGCGCCGAGGATCTCACTCACTTGTACAACY
38616 P C S ATGAGTGGCAGAGCTCTCACTCACTTGTACAACY
38616 T T S CAGAGTTGTACAAGTGAGTGAGATACATTCAGACTTTTAATTTTGTGACGATAACTCTTACCGTTGTGGTGAACA
38616 T C S CAGAGTTGTACAAGTGAGTGAGACACATTCAGACTTTTAATTTTGTGACGATAACTCTTACCGTTGTGGTGAACA
38616 IS [TC] AAGCCTGGAGTTTATTCAAGTTCCTAAGAAAAACTGCCAGAGTTGTACAAGTGAGTGAGA[TC]ACATTCAGACTTTTAATTTTGTGACGATAACTCTTACCGTTGTGGTGAACAGATTAGATA
38626 I S GGGGTCTGTGGGCACCTACTGGGGT
38626 P T S CGCGCCGAGGATGGGTACAGCAGGGY
38626 P C S ATGACGTGGCAGACGTGGGTACAGCAGGGY
38626 T T S ATTTCCCTGCTGTACCCATCCCCAGTAGGTGCCCACAGACCCCGG
38626 T C S ATTTCCCTGCTGTACCCACCCCAGTAGGTGCCCACAGACCCCGG
38626 IS [TC] GGCTCTGTAAGTGACTTGCCCAATATCACAGACCTGGGCCTGATTTCCCTGCTGTACCCA[TC]CCCCAGTAGGTGCCCACAGACCCCGGAGATCCTGAAGCACAGGTCAGGGAGACTAAGCTG
38655 I S CACTAGGAGCCTTCCTTTTATGCACCCTGAGTTGATACCT
38655 P T S CGCGCCGAGGAAAGGAAGCAAGAGAGCY
38655 P C S ATGACGTGGCAGACGAAGGAAGCAAGAGAGCY
38655 T T S TGCTGCTCTCTTGCTTCCTTTGGTATCAACTCAGGGTGCATAAAAGGAAGGTCCTAGTGTT
38655 T C S TGCTGCTCTCTTGCTTCCTTCGGTATCAACTCAGGGTGCATAAAAGGAAGGTCCTAGTGTT
38655 IS [TC] AGAGAGGGAATTAAAGATGGGAAAAGTACACATTGAAACTTGCTGCTCTCTTGCTTCCTT[TC]GGTATCAACTCAGGGTGCATAAAAGGAAGGTCCTAGTGTTCCTGGGGCAGCTTTCCCAAA

FIGURE 129F



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FIGURE 129F

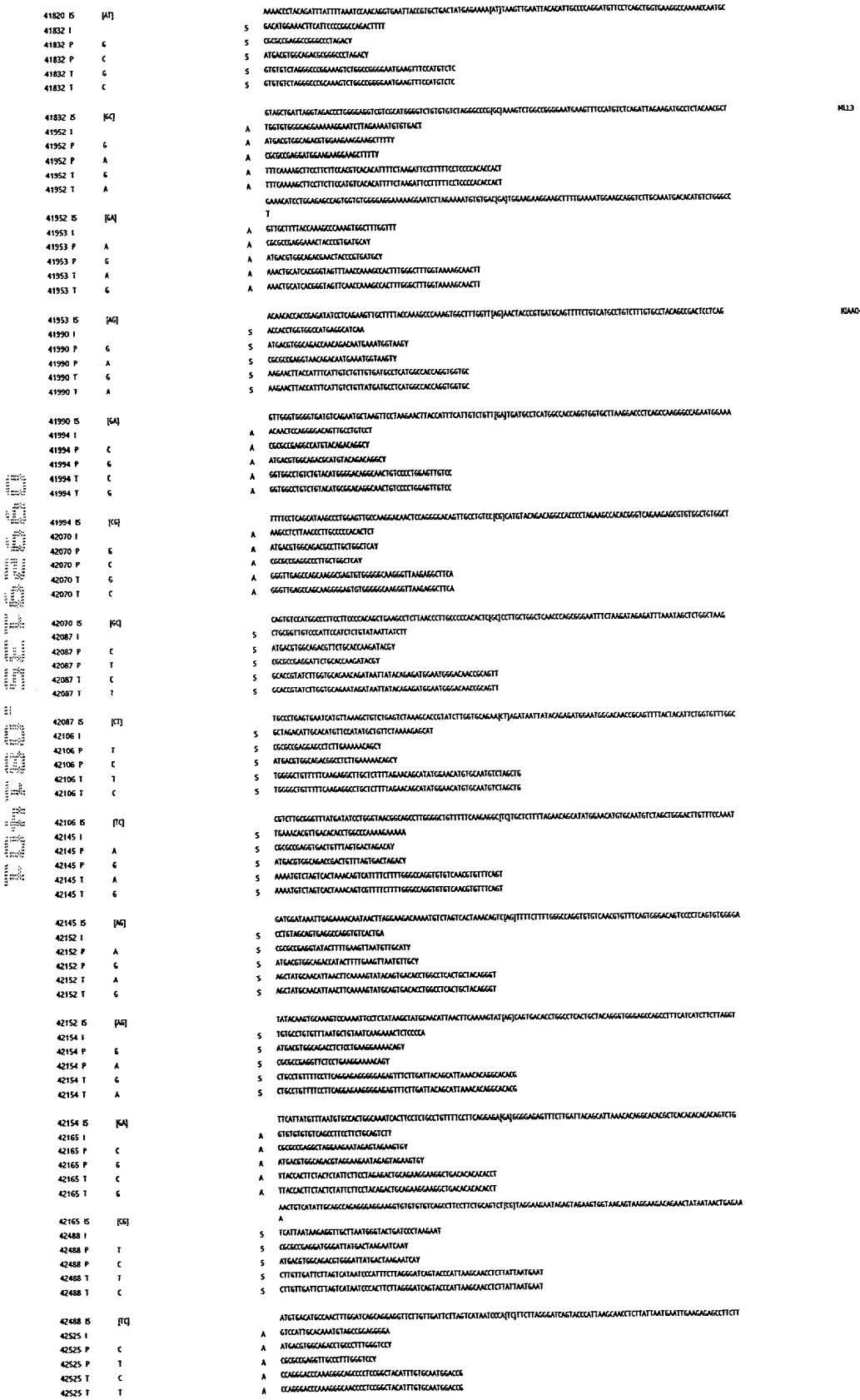


FIGURE 129F

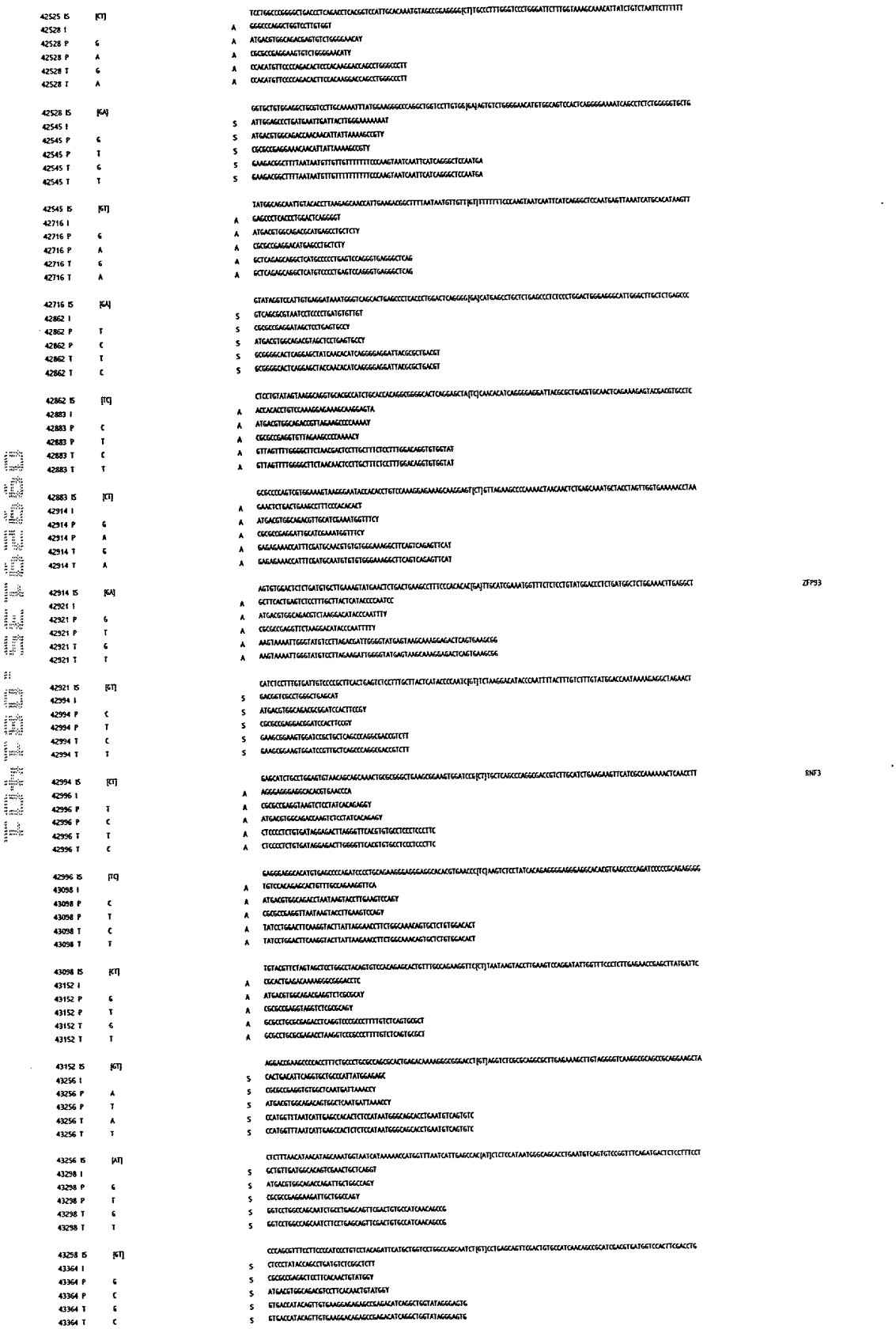

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42528 I A GGGCCCAGGCTGGTCCTTGTGGT
42528 P G A ATGACGTGGCAGACGAGTGTCTGGGGAACAY
42528 P A A CGCGCCGAGGAAGTGTCTGGGGAACATY
42528 T G A CCACATGTTCCCCAGACACTCCCACAAGGACCAGCCTGGGCCCTT
42528 T A A CCACATGTTCCCCAGACACTTCCACAAGGACCAGCCTGGGCCCTT
42528 IS [GA] GGTGCTGTGGAGGCTGCGTCCTTGCAAAATTTATGGAAGGGCCCAGGCTGGTCCTTGTGG[GA]AGTGTCTGGGGAACATGTGGCAGTCCACTCAGGGGAAAATCAGCCTCTCTGGGGGTGCTG
42545 I S ATTGGAGCCCTGATGAATTGATTACTTGGGAAAAAAT
42545 P G S ATGACGTGGCAGACCAACAACATTATTAAAAGCGGTY
42545 P T S CGCGCCGAGGAAACAACATTATTAAAAGCGGTY
42545 T G S GAAGACGGCTTTTAATAATGTTGTTGTTTTTTTCCCAAGTAATCAATTCATCAGGGCTCCAATGA
42545 T T S GAAGACGGCTTTTAATAATGTTGTTTTTTTTTCCCAAGTAATCAATTCATCAGGGCTCCAATGA
42545 IS [GT] TATGGCAGCAATTGTACACCTTAAGAGCAACCATTGAAGACGGCTTTTAATAATGTTGTT[GT]TTTTTTTCCCAAGTAATCAATTCATCAGGGCTCCAATGAGTTAAATCATGCACATAAGTT
42716 I A GAGCCCTCACCCTGGACTCAGGGGT
42716 P G A ATGACGTGGCAGACGCATGAGCCTGCTCTY
42716 P A A CGCGCCGAGGACATGAGCCTGCTCTY
42716 T G A GCTCAGAGCAGGCTCATGCCCCCTGAGTCCAGGGTGAGGGCTCAG
42716 T A A GCTCAGAGCAGGCTCATGTCCCCTGAGTCCAGGGTGAGGGCTCAG
42716 IS [GA] GTATAGGTCCATTGTGAGGATAAATGGGTCAGCACTGAGCCCTCACCCTGGACTCAGGGG[GA]CATEAGCCTGCTCTGAGCCCTCTCCCTGGACTGGGAGGGCATTGGGCTTGCTCTGAGCCC
42862 I S GTCAGCGGTAATCCTCCCCCTGATGTGTTGT
42862 P T S CGCGCCGAGGATAGCTCCTGAGTGCCY
42862 P C S ATGACGTGGCAGACGTAGCTCCTGAGTGCCY
42862 T T S GCGGGGCACTCAGGAGCTACCAACACATCAGGGGAGGATTACGCGCTGACGT
42862 T C S GCGGGGCACTCAGGAGCTACCAACACATCAGGGGAGGATTACGCGCTGACGT
42862 IS [TC] CTCCTGTATAGTAAGGCAGGTGCACGCCATCTGCACCACAGGCGGGGCACTCAGGAGCTA[TC]CAACACATCAGGGGAGGATTACGCGCTGACGTGCAACTCAGAAAGAGTACGACGTGCCTC
42883 I A ACCACACCTGTCCAAAGGACAAAGCAAGCAAGGAGTA
42883 P C A ATGACGTGGCAGACCGTAGAAGCCCCAAAAY
42883 P T A CGCGCCGAGGTGTTAGAAGCCCCAAAACY
42883 T C A GTTAGTTTTGGGGCTTCTAACGACTCCTTGCTTTCTCCTTTGGACAGGTGTGGTAT
42883 T T A GTTAGTTTTGGGGCTTCTAACAACTCCTTGCTTTCTCCTTTGGACAGGTGTGGTAT
42883 IS [CT] GCGCCCCAGTCGTGGAAAGTAAGGGAATACCACACCTGTCCAAAGGAGAAAGCAAGGAGT[CT]GTTAGAAGCCCAAAACTAACAACTCTGAGCAAATGCTACCTAGTTGGTGAAAACCTAA
42914 I A GAACTCTGACTGAAGCCTTTCCCACACACT
42914 P G A ATGACGTGGCAGAGGTTGCATCGAAATGGTTTCY
42914 P A A CGCGCCGAGGATTGCATCGAAATGGTTTCY
42914 T G A GAGAGAAACCATTTCGATGCAACGTGTGTGGGAAAGGCTTCAGTCAGAGTTCAT
42914 T A A GAGAGAAACCATTTCGATGCAATGTGTGTGGGAAAGGCTTCAGTCAGAGTTCAT
42914 IS [GA] AGTGTGGACTCTCTGATGTGCTTGAAAGTATGAACTCTGACTGAAGCCTTTCCCACACAC[GA]TTGCATCGAAATGGTTTCTCTCCTGTATGGACCCTCTGATGGCTCTGGAAACTTGAGGCT ZFP93
42921 I A GCTTCACTGAGTCTCCTTTGCTTACTCATACCCCAATCC
42921 P G A ATGACGTGGCAGAGTCTAAGGACATACCCAATTTY
42921 P T A CGCGCCGAGGTTCTAAGGACATACCCAATTTTY
42921 T G A AAGTAAAATTGGGTATGTCCTTAGACGATTGGGGTATGAGTAAGCAAAGGAGACTCAGTGAAGCGG
42921 T T A AAGTAAAATTGGGTATGTCCTTAGAAGATTGGGGTATGAGTAAGCAAAGGAGACTCAGTGAAGCGG
42921 IS [GT] CATCTCCTTTGTGATTGTCCCCGCTTCACTGAGTCTCCTTGCTTACTCATACCCCAATC[GT]TCTAAGGACATACCCAATTTTACTTTGTCTTTGTATGGACCAATAAAACAGGCTAGAACT
42994 I S GACGGTGCCTGGGCTGAGCAT
42994 P C S ATGACGTGGCAGACGCGGATCCACTTCCGY
42994 P T S CGCGCCGAGGAGCGATCCACTTCCGY
42994 T C S GAAGCGGAAGTGGATCCGCTGCTCAGCCCAGGCGACCGTCTT
42994 T T S GAAGCGGAAGTGGATCCGTTGCTCAGCCCAGGCGACCGTCTT
42994 IS [CT] GAGCATCTGCCTGGAAGTGTAACAGCAGCAAACTGCGCGGGCTGAAGCGGAAGTGGATCCG[CT]TGCTCAGCCCAGGGCACCGTCTTCGATCTGAAGAAGTTCATCGCCAAAAAACTCAACCTT RNF3
42996 I A AGGGAGGGAGGCACACGTGAACCCA
42996 P T A CGCGCCGAGGTAAGTCTCCTATCACACAGAGY
42996 P C A ATGACGTGGCAGACCAAGTCTCCTATCACACAGAGY
42996 T T A CTCCCCTCTGTGATAGGAGACTTAGGGTTCACGTGTGCCTCCCTCCCTTC
42996 T C A CTCCCCTCTGTGATAGGAGACTTGGGGTTCACGTGTGCCTCCCTCCCTTC
42996 IS [TC] GAGGGAGGCACATGTGAGCCCCAGATCCCCTGCAGAAGGGAGGGAGGCACACGTGAACCCC[TC]AAGTCTCCTATCACAGAGGGAGGGAGGCACACGTGAGCCCCAGATCCCCCGCAGAGGGG
43098 I A TGTCCACAGAGCACTGTTTGCCAGAAGGTTCA
43098 P C A ATGACGTGGCAGACCTAATAAGTACCTTGAAGTCCAGY
43098 P T A CGCGCCGAGGTTAATAAGTACCTTGAAGTCCAGY
43098 T C A TATCCTGGACTTCAAGGTACTTATTAGGAACCTTCTGGCAAACAGTGCTCTGTGGACACT
43098 T T A TATCCTGGACTTCAAGGTACTTATTAAGAACCTTCTGGCAAACAGTGCTCTGTGGACACT
43098 IS [CT] TGTACGTTCTAGTAGCTGCTGGCCTACAGTGTCCACAGAGCACTGTTTGCCAGAAGGTTCC[CT]TAATAAGTACCTTGAAGTCCAGGATATTGGTTTCCCCTTTGAGAACCGAGCTTATGATTC
43152 I A CGCACTGAGACAAAAGGCGCGGGACCTC
43152 P G A ATGACGTGGCAGACGAAGGTCTCGCGCAY
43152 P T A CGCGCCGAGGTAGGTCTCGCGCAGY
43152 T G A GCGCCTGCGCGAGACCTCAGGTCCCGCCCTTTGTCTCAGTGCGCT
43152 T T A GCGCCTGCGCGAGACCTAAGGTCCCGCCCTTTGTCTCAGTGCGCT
43152 IS [GT] AGGACCGAAGCCCCACCTTTCTGCCCTGCGCCAGCGCACTGAGACAAAAGGCCGGGACCT[GT]AGGTCTCGCGCAGGCGCTTGAGAAAGCTTGTAGGGGTCAAGGCGCAGCCGCAGGAAGCTA
43256 I S CACTGACATTCAGGTGCTGCCCATTATGGAGAGC
43256 P A S CGCGCCGAGGTGTGGCTCAATGATTAAACCY
43256 P T S ATGACGTGGCAGACAGTGGCTCAATGATTAAACCY
43256 T A S CCATGGTTTAATCATTGAGCCACACTCTCCATAATGGGCAGCACCTGAATGTCAGTGTC
43256 T T S CCATGGTTTAATCATTGAGCCACTCTCTCCATAATGGGCAGCACCTGAATGTCAGTGTC
43256 IS [AT] CTCTTTAACATAACATAGCAAATGGTAATCATAAAAACCATGGTTTAATCATTGAGCCAC[AT]CTCTCCATAATGGGCAGCACCTGAATGTCAGTGTCCGGTTTCAGATGACTCTCCTTTCCT
43298 I S GCTGTTGATGGCAGAGTCGAACTGCTCAGGT
43298 P G S ATGACGTGGCAGACCAGATTGCTGGCCAGY
43298 P T S CGCGCCGAGGAAGATTGCTGGCCAGY
43298 T G S GGTCCTGGCCAGCAATCTGCCTGAGCAGTTCGACTGTGCCATCAACAGCCG
43298 T T S GGTCCTGGCCAGCAATCTCCTGAGCAGTTCGACTGTGCCATCAACAGCCG
43298 IS [GT] CCCAGCGTTTCCTTCCCCATCCCTGTCCTACAGATTCATGCTGGTCCTGGCCAGCAATCT[GT]CCTGAGCAGTTCGACTGTGCCATCAACAGCCGCATCGACGTGATGGTCCACTTCGACCTG
43364 I S CTCCCTATACCAGCCTGATGTCTCGGCTCTT
43364 P G S CGCGCCGAGACTCCTTCACAACTGTATGGY
43364 P C S ATGACGTGGCAGACGTCCTTCACAACTGTATGGY
43364 T G S GTGACCATACAGTTGTGAAGCAGAGACCGCAGACATCAGGCTGGTATAGGGAGTG
43364 T C S GTGACCATACAGTTGTGAAGCAGAGACCGCAGACATCAGGCTGGTATAGGGAGTG

FIGURE 129F

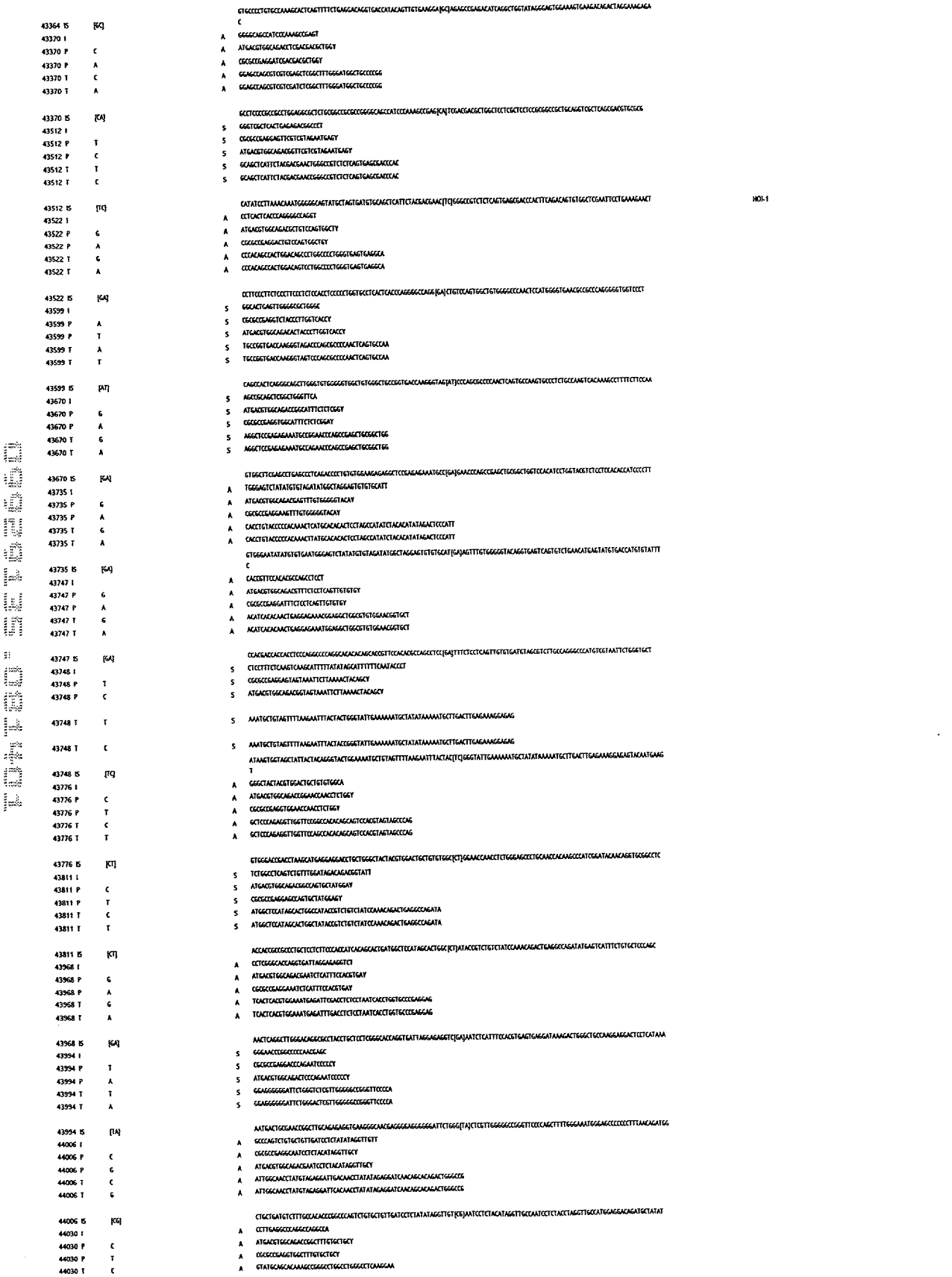


FIGURE 129F

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44030 T    T    A    GTATGCAGCACAAAGCCAGGCCTGGCCTGGGCCTCAAGGAA

44030 IS   [CT]      CCAGGCTGGCCTGGTTCCAAGGCCCCAGGCTGCGTTGTTCCTTGAGGCCAGGCCAGGCC[CT]GGCTTTGTGCTGCATACCTGCCCACCTGTATGCTGCTGCAGAGCCCCAGCACCCCAGCCT
44109 I         S    GGATGAAGATGGCGAGGAGTTAGAAAAAGGCTCAACTGT
44109 P    G    S    ATGACGTGGCAGACCGTTTCTTGAATTCAAGAGY
44109 P    T    S    CGCGCCGAGGAGTTTCTTCGAATTCAAGAGAY
44109 T    G    S    GCCTTCTCTTGAATTCGAAGAAACGCAGTTGAGCCTTTTCTAACTCCTCGCCATCTTCATCCCC
44109 T    T    S    GCCTTCTCTTGAATTCGAAGAAACTCAGTTGAGCCTTTTCTAACTCCTCGCCATCTTCATCCCC

44109 IS   [GT]      CCAGGTCCTTCTCCAAGTTCACTAGCTTGACAAGCTGCCTTCTCTTGAATTCGAAGAAAC[GT]CAGTTGAGCCTTTTCTAACTCCTCGCCATCTTCATCCCCTCCGGCACGAGCCTCCTTCAC
44158 I         A    CTCCAGGACATTCAGCCAGGTCCACCCT
44158 P    A    A    CGCGCCGAGGATGTCTTAGCCCTTTCTTTTY
44158 P    G    A    ATGACGTGGCAGACGTGTCTTAGCCCTTTCTYTY
44158 T    A    A    TGGGAAAAGAAAGGGCTAAGACATGGGTGAACTGGCTGAATGTCCTGGAGTG
44158 T    G    A    TGGGAAAAGAAAGGGCTAAGACACGGGTGAACTGGCTGAATGTCCTGGAGTG

44158 IS   [AC]      ACCCCAAACCCGCCTGAGTCCCACAGGAGTGCACTCCAGGACATTCAGCCAGGTCCACCC[AG]TGTCTTAGCCCTTTCTTTTCCCAGTAGACTCTGTCTCTGGGCGGCTCTGTCCAGCACCAT
44180 I         S    GTTGGATCTGATTCTGGGCATCAAACTCAATAATCCGCC
44180 P    C    S    ATGACGTGGCAGACGTTTCCCTCGCCTY
44180 P    A    S    CGCGCCGAGGTCTTTCCCTCGCCTCY
44180 T    C    S    GGGTGAGGCCAGGGAAAGCCGCGATTATTGAGTTTGATGCCCAGAATCAGATCCAACCC
44180 T    A    S    GGGTGAGGCCAGGGAAAGAGCGGATTATTGAGTTTGATGCCCAGAATCAGATCCAACCC

44180 IS   [CA]      CTTGTCAGTGCCCCTTATATGTCACCTGGGAGACTCACTGGGGGGTGAGGCCGAGGGAAAG[CA]GCGGATTATTGAGTTTGATGCCCAGAATCAGATCCAACCCATAGTCTCACAGATACATAA
44204 I         S    GGGCGGGGGCAGGGTGGAT
44204 P    C    S    ATGACGTGGCAGACGCCAGAATGCAGCAGY
44204 P    T    S    CGCGCCGAGGAGCAGAATGCAGCAGAY
44204 T    C    S    AGCCTCTGCTGCATTCTGCCTCCACCCTGCCCCCGCCCGT
44204 T    T    S    AGCCTCTGCTGCATTCTGCTTCCACCCTGCCCCCGCCCGT

44204 IS   [CT]      TCAGGCAGCTACTGCCTATGTCTTGTGCTGAGGGCCCCAGCAGCCCTCTGCTGCATTCTGC[CT]TCCACCCTGCCCCCGCCCGTTTCCCGGCTCACCCCGCCCAGGCCCAGCCCAGCCGTCGGTGGAG
44264 I         S    CGAGGGGCTCCGACCGGAGCAAT
44264 P    C    S    ATGACGTGGCAGACGCCCTGACACTCCCY
44264 P    T    S    CGCGCCGAGGACCCTGACACTCCCY
44264 T    C    S    ATGGGGGAGTGTCAGGGCTTGCTCCGGTCGGAGCCCCTCGCT
44264 T    T    S    ATGGGGGAGTGTCAGGGTTTGCTCCGGTCGGAGCCCCTCGCT

44264 IS   [CT]      GGCGGGGCTGGCGGGCGAGGCTCAGGATCTGCACAGGTCTGGCATGGGGGAGTGTCAGGG[CT]TTGCTCCGGTCGGAGCCCCTCGCTCAGGCCCCTCATGCAGTGGCTTGGGCACAGGGCAGG
44285 I         A    GGAGAAGAGACAGTAACGTTCTGCCGTCACCCT
44285 P    G    A    ATGACGTGGCAGACGTGGACTGGAGACACAY
44285 P    A    A    CGCGCCGAGGATGGACTGGAGACACAAY
44285 T    G    A    TTGCTTGTGTCTCCAGTCCACAGGGTGACGGCAGAACGTTACTGTCTCTTCTCCTT
44285 T    A    A    TTGCTTGTGTCTCCAGTCCATGGGTGACGGCAGAACGTTACTGTCTCTTCTCCTT

44285 IS   [GA]      CAAGGTCCAGGCCTCTTCTCCTCTGAAGGAGAAGACAGTAAGGTTCTGCCGTCACCCTGA]TGGACTGCAGACACAAGCAACCCCACAAGGATGCTGCCTCCCCTGCGGCCTCTGGGCTCAC
44288 I         S    GCTGAGCCCAGGCTGGCCCATGT
44288 P    C    S    ATGACGTGGCAGACGGGAGGGCACTCTGGAY
44288 P    G    S    CGCGCCGAGGCGCAGGGACTCTGGY
44288 T    C    S    GGTCTCCAGAGTCCCTCCCCATGGCCCAGCCTGGGCTCAGCAG
44288 T    G    S    GGTCTCCAGAGTCCCTCCGCATGGCCCAGCCTGGGCTCAGCAG

44288 IS   [CG]      CCCTCTCACACAGGGCTGGGCTCCTCCCGCCCCCTCCACCATGGTCTCCAGAGTCCCTCC[CG]CATGGCCCAGCCTGGGCTCAGCAGACGACAGAGGTGAGGCAGGTCTCCCGGCTGCCGTGC
44293 I         A    CCCAGTAGAGCCCAGGCCACAGGTT
44293 P    G    A    ATGACGTGGCAGACGTGTCTAATTCTGAGCCAGY
44293 P    A    A    CGCGCCGAGGATGTCTAATTCTGAGCCAGAY
44293 T    G    A    GTCCTCTGGCTCAGAATTAGACACACCTGTGGCCTGGGCTCTACTGGGCC
44293 T    A    A    GTCCTCTGGCTCAGAATTAGACATACCTGTGGCCTGGGCTCTACTGGGCC

44293 IS   [GA]      GTGCTCCTCCTAGACTCAAGGATACAACTGCAGGGGCCCAGTAGAGCCCAGGCCACAGGT[GA]TGTCTAATTCTGAGCCAGAGGACTTCACAGTTCAGTCCCCACCCCTCAAATTAGTTTTCT
44297 I         A    CCGTGGCAGTCGGCCCTCCCA
44297 P    C    A    ATGACGTGGCAGACGAGTCCAGCCTCACY
44297 P    T    A    CGCGCCGAGGTGAGTCCAGCCTCACY
44297 T    C    A    GGAGGTGAGGCTGGACTCGGGGAGGGCCGACTGCCACGGGG
44297 T    T    A    GGAGGTGAGGCTGGACTCAGGGAGGGCCGACTGCCACGGGG

44297 IS   [CT]      GTTGTCAGAGGAAGCCCCACCAGCTGCCCCAGGGCAGTCCCCGTGGCAGTCGGCCCTCCC[CT]GAGTCCAGCCTCACCTCCAGGAGCCACAGCAGCTCCTCCACGTAGGCCCGTTCTGTGTCC
44327 I         S    TGGTTGAGAAGCCAGCACCTATGAAAAAGACAAGATTCAGT
44327 P    T    S    CGCGCCGAGGAAAGAGGGAGAAATTTCCAAY
44327 P    G    S    ATGACGTGGCAGACCAAGAGGGAGAAATTTCCAAY
44327 T    T    S    GCCCTTGGAAATTTCTCCCTCTTTCTGAATCTTGTCTTTTCATAGGTGCTGGCTTCTCAACCATG
44327 T    G    S    GCCCTTGGAAATTTCTCCCTCTTGCTGAATCTTGTCTTTTTCATAGGTGCTGGCTTCTCAACCATG

44327 IS   [TG]      TTGCCCATGTTTGAGCATGCCTTGAGGCACACACAAAGCCCTTGGAAATTTCTCCCTCTT[TG]CTGAATCTTGTCTTTTTCATAGGTGCTGGCTTCTCAACCATGATAGCCTGAAATGTACCC
44350 I         A    GCAGGACAAAACAAAGAAGAGGCAGAAAAAGGGAGTCAGAAAATAA
44350 P    C    A    ATGACGTGGCAGACCGATTTAGGGAGAGTTTGATY
44350 P    T    A    CGCGCCGAGGTGATTTAGGGAGAGTTTGATGY
44350 T    C    A    GTCCCATCAAACTCTCCCTAAATCGTATTTTCTGACTCCCTTTTTCTCCCCTCTCTTTGTTTTGTCCTGCAG
44350 T    T    A    GTCCCATCAAACTCTCCCTAAATCATATTTTCTGACTCCCTTTTTCTCCCCTCTCTTTGTTTTGTCCTGCAG

44350 IS   [CT]      CTCATTCCAGGAGCTGCAGGACAAAACAAAGAAGAGGGAGAAAAAGGGAGTCAGAAAATA[CT]GATTTAGGGAGAGTTTGATGGGACTTCAATTAAAAACAAAAAACTAGCCCCCCTTGCA
                    A
44395 I         S    CAGTTTGAAAGGATTAAAATAAGTCACTGTCTTTGGTTCATAAAAGTATAGATT
44395 P    T    S    CGCGCCGAGGATTTACAGAAAGTGACAGAAGY
44395 P    C    S    ATGACGTGGCAGACGTTTACAGAAAGTGACAGAAGY

44395 T    T    S    TCTACCTTCTGTCACTTTCTGTAAATATCTATACTTTTATGAACGAAAGACAGTGACTTATTTTAATCCTTTCAAACTGCC

44395 T    C    S    TCTACCTTCTGTCACTTTCTGTAAACATCTATACTTTTATGAACGAAAGACAGTGACTTATTTTAATCCTTTCAAACTGCC

44395 IS   [TC]      CTCTAGCAAATAAAATCCTTAGAAACATGACTATGTCTACCTTCTGTCACTTTCTGTAAA[TC]ATCTATACTTTTATGAACGAAAGACAGTGACTTATTTTAATCCTTTCAAACTGCCTGATA
44415 I         A    TGACTTCACCCAGTCTCCAGAGGTACCTGAGATTT
44415 P    G    A    ATGACGTGGCAGACGGCAATACATATTTGGGATCAY
44415 P    A    A    CGCGCCGAGGAGCAATACATATTTGGGATCAY
44415 T    G    A    CCTGTGATCCCAAATATGTATTGCAATCTCAGGTACCTCTGGAGACTGGGTGAAGTCAGG
44415 T    A    A    CCTGTGATCCCAAATATGTATTGCTAATCTCAGGTACCTCTGGAGACTGGGTGAAGTCAGG

44415 IS   [GA]      TATTTTGTACTACAGAAAAAACCTCCTGACTTCACCCAGTCTCCAGAGGTACCTGAGATT[GA]GCAATACATATTTGGGATCACAGGCCTCTCTGAAAATCATCCTGCCTCATATAAAGTTGT
44428 I         S    CAGCCCTGATCCCTGGACTTTCTCACATTAACT
44428 P    T    S    CGCGCCGAGGAGAGACTGAAATGCAGATTACY
44428 P    C    S    ATGACGTGGCAGACGGAGACTGAAATGCAGATTAY
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FIGURE 129F

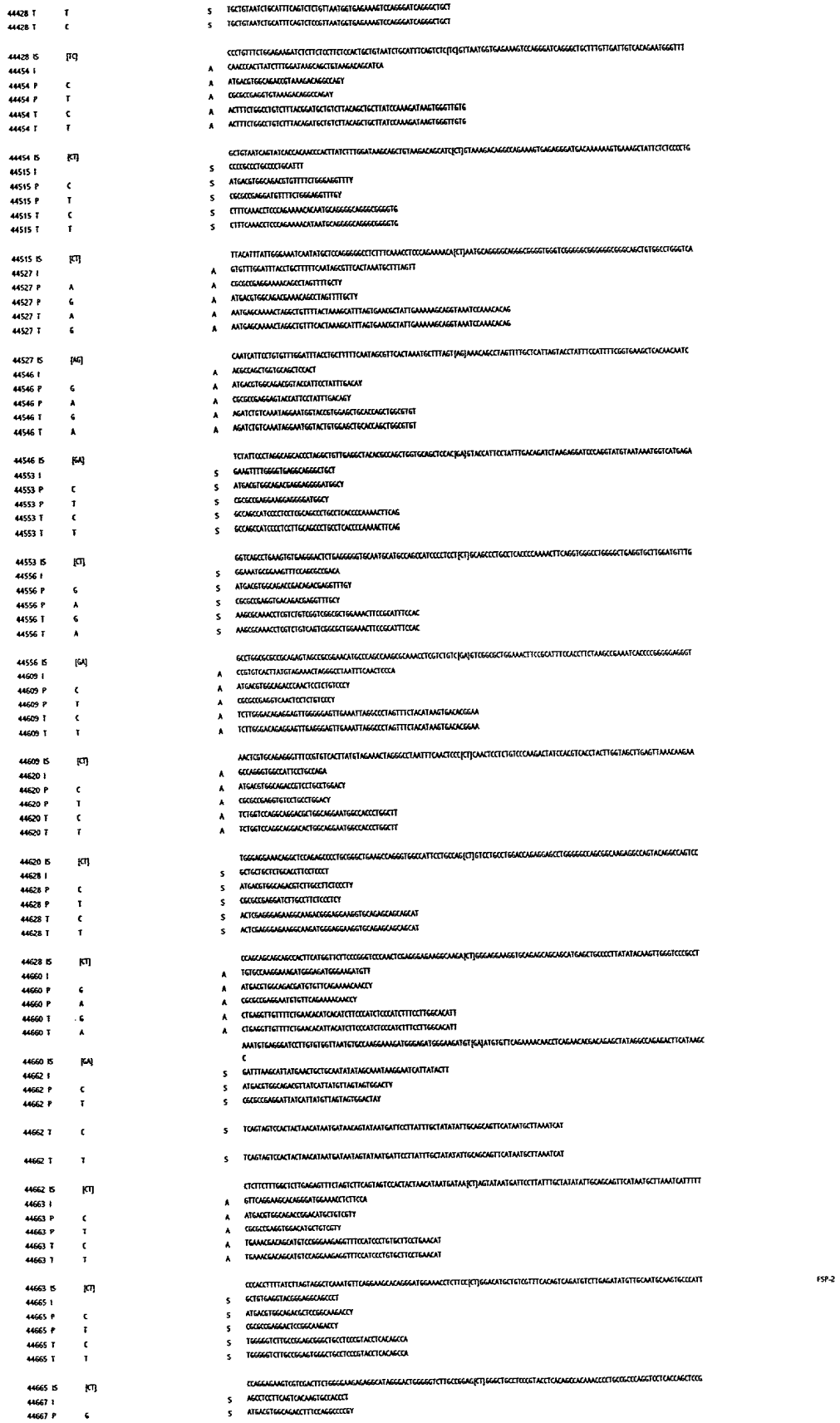


FIGURE 129F

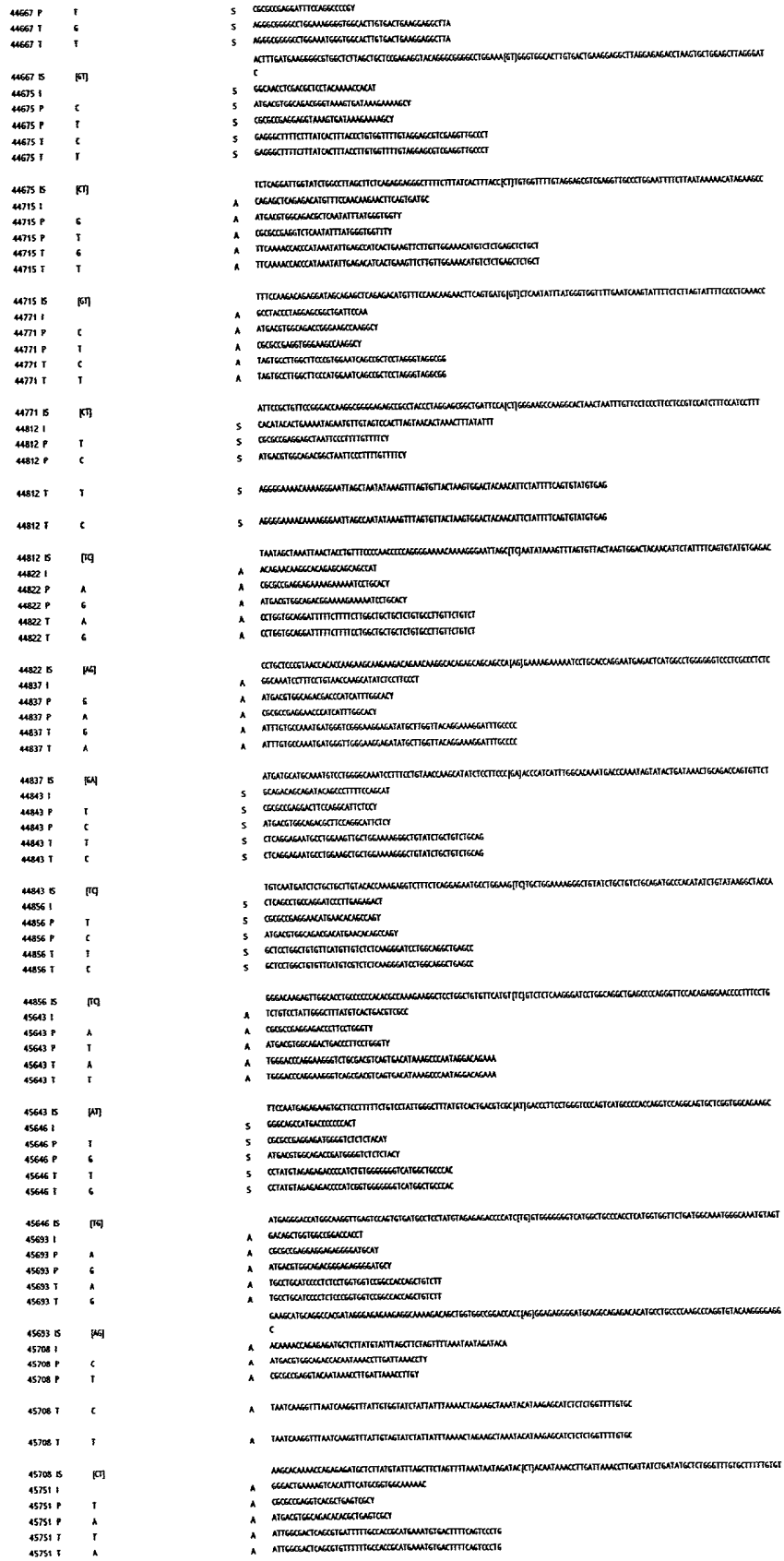


FIGURE 129F

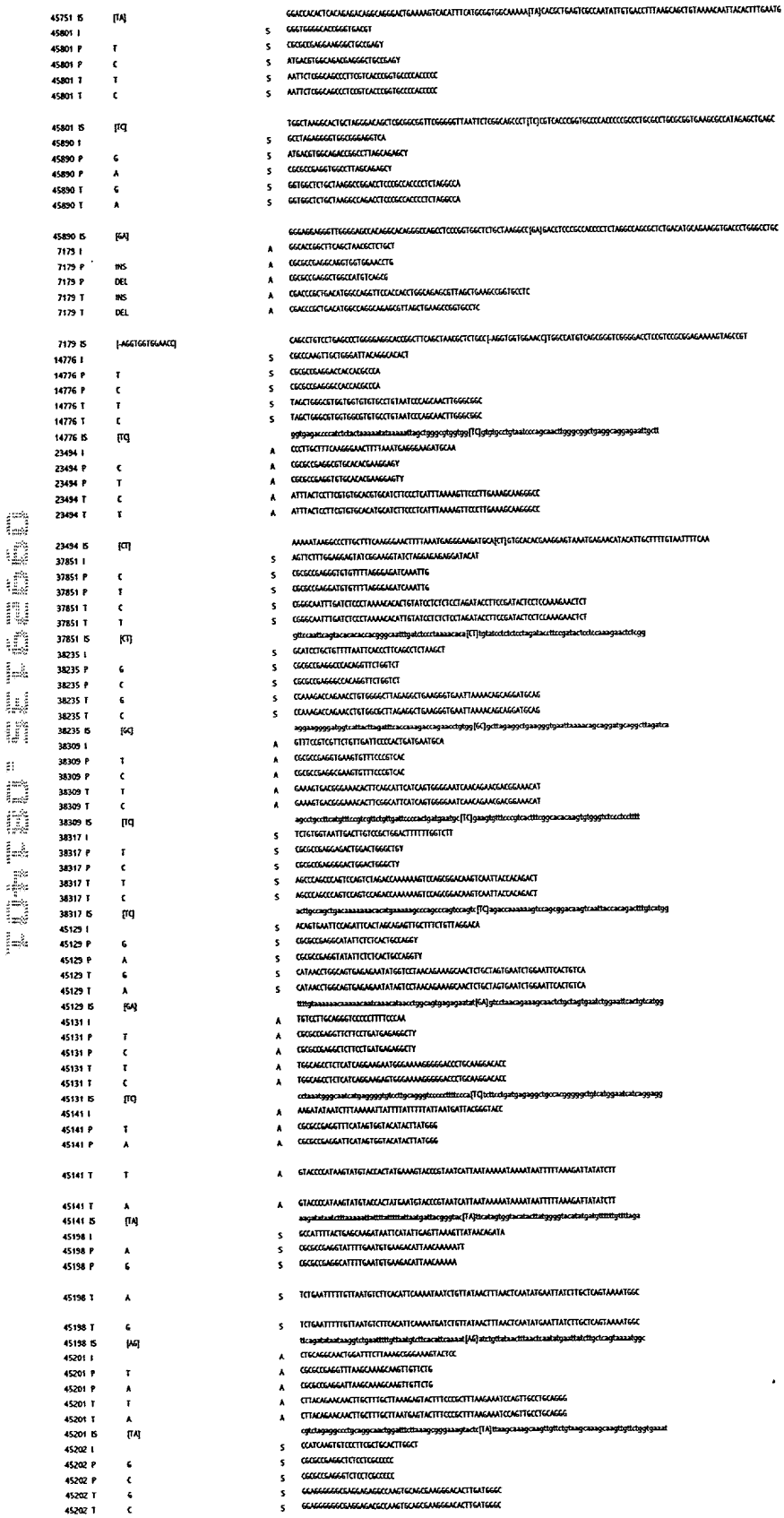


FIGURE 129F

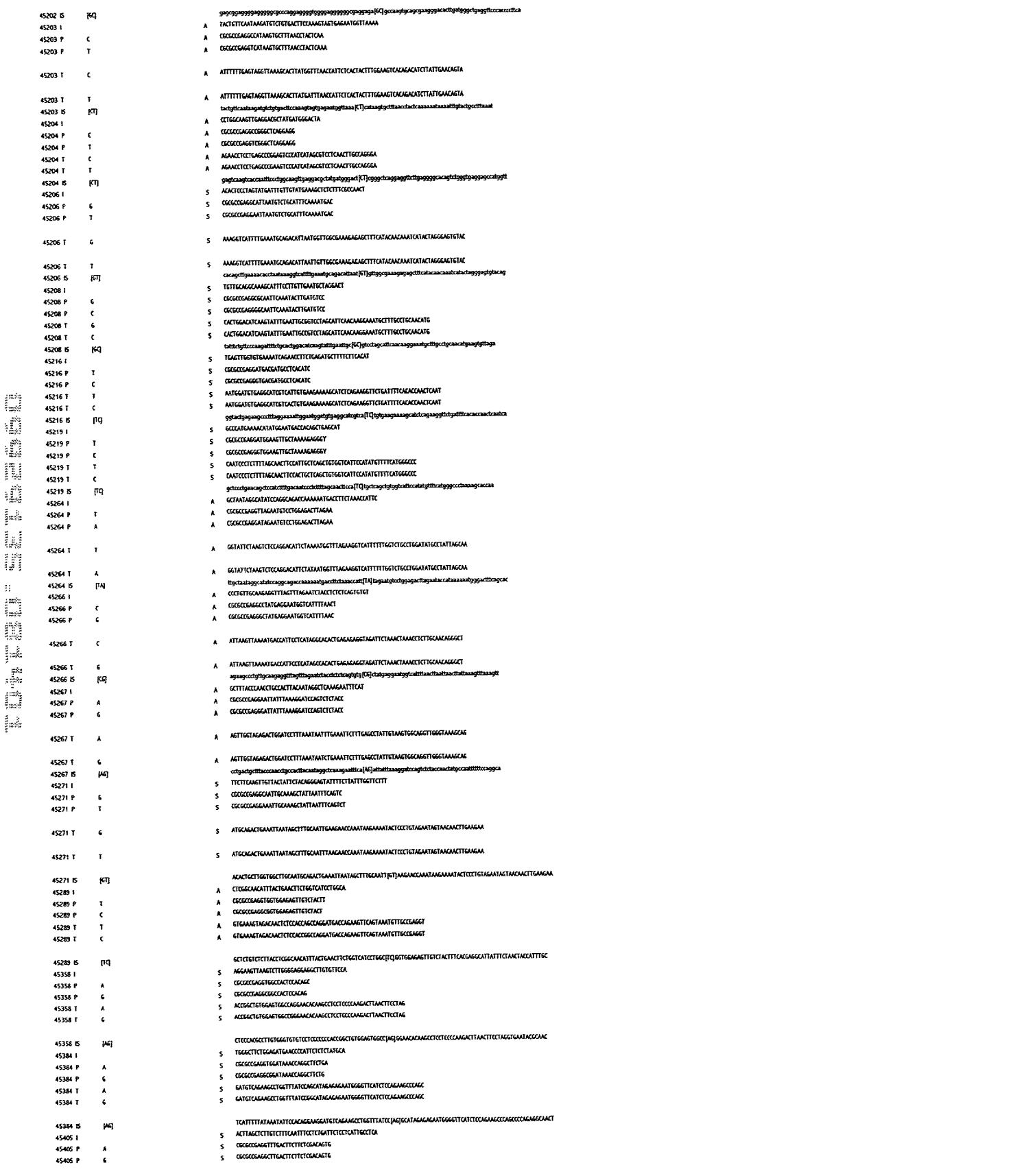


FIGURE 129F

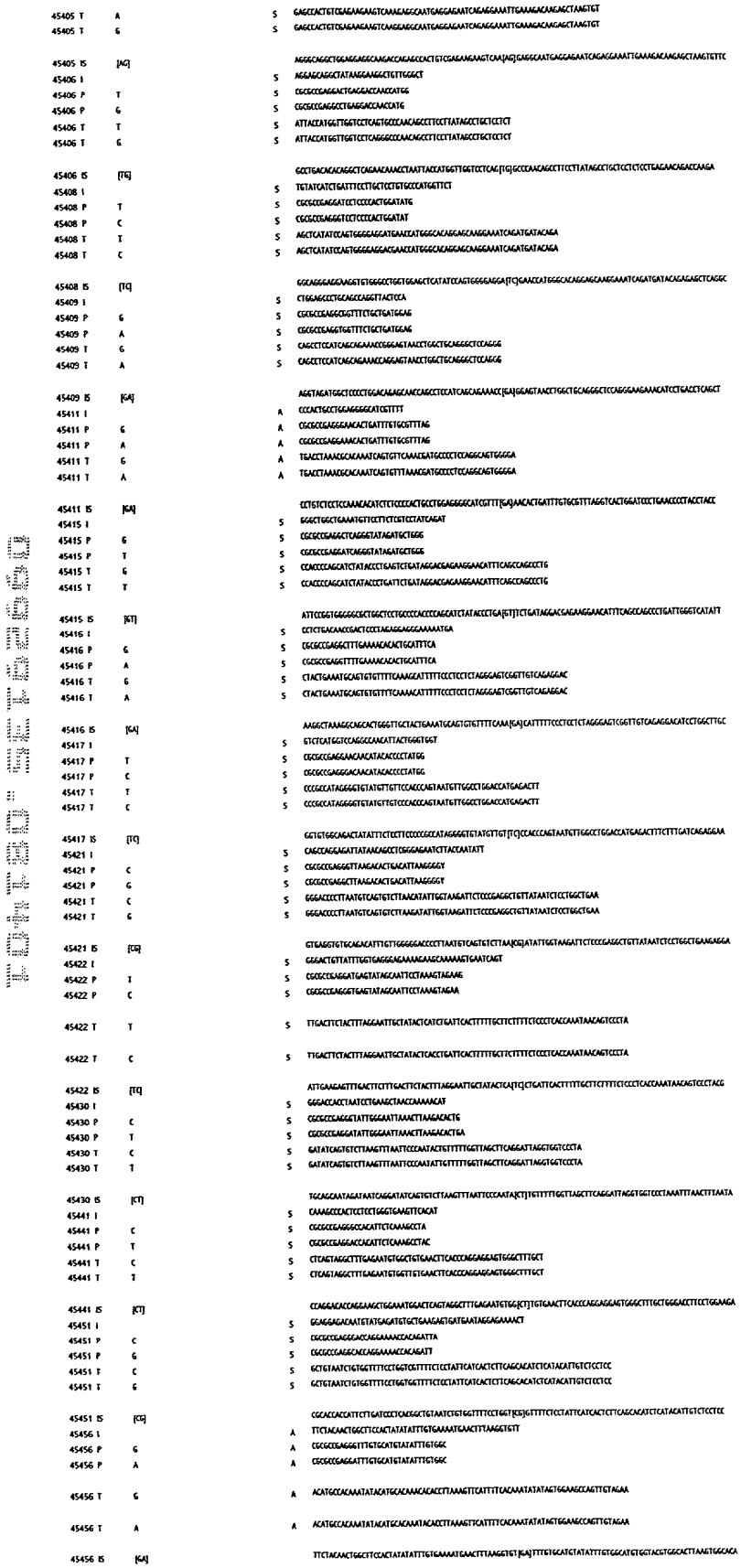
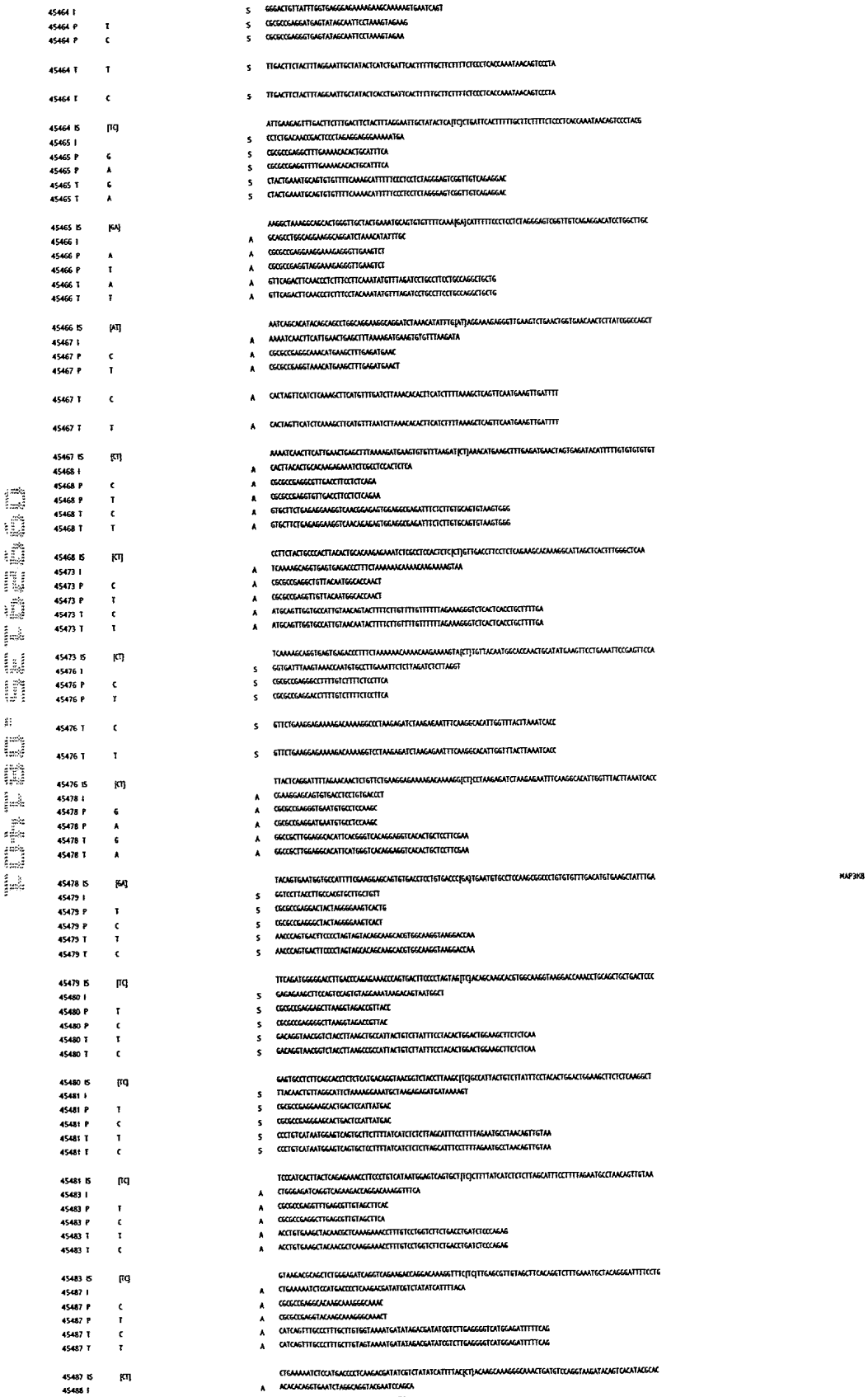


FIGURE 129F



MAP2K8

FIGURE 129F

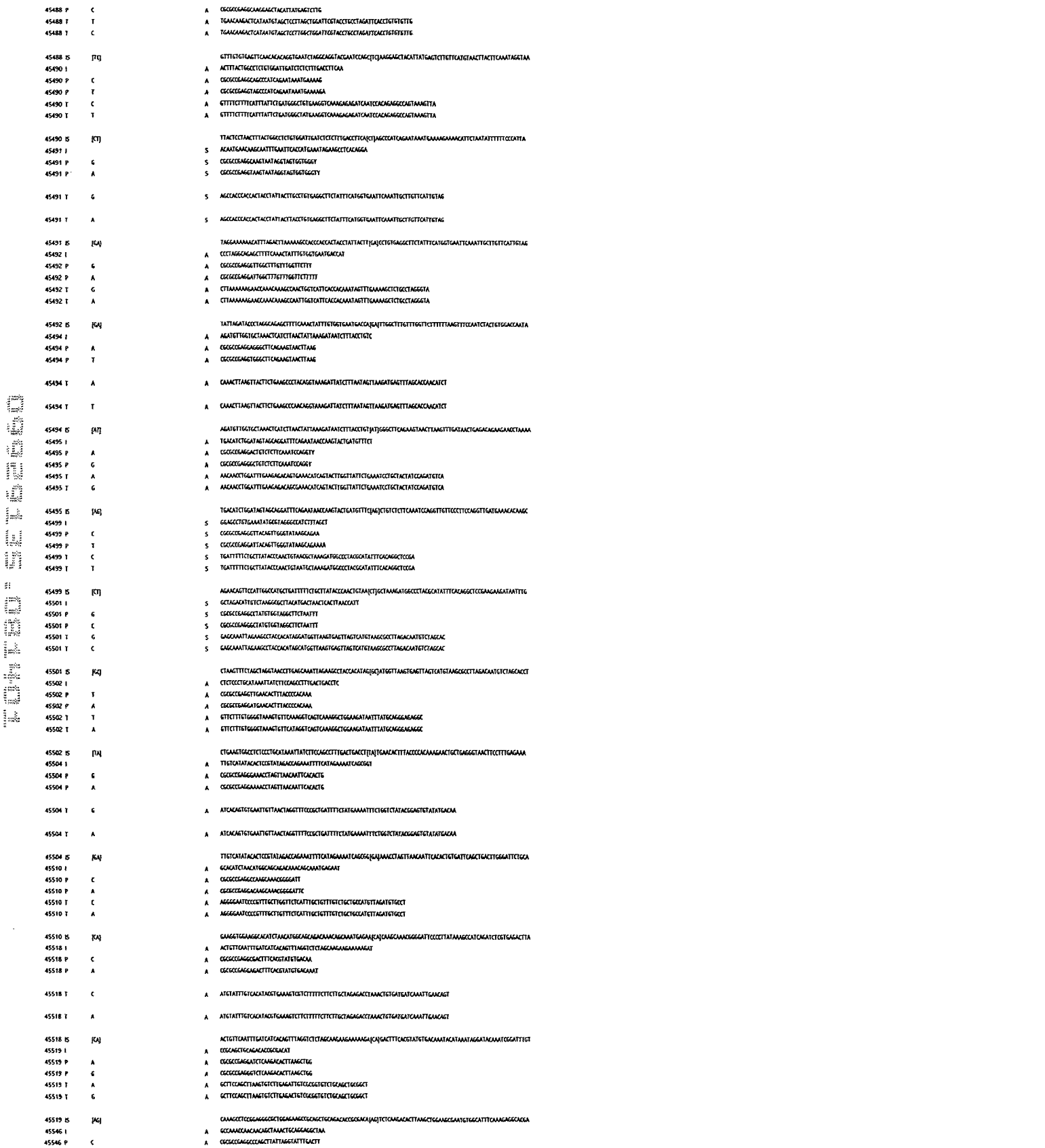

45488 P C A CGCGCCGAGGCAAGAAGCTACATTATGAGTCTTG
45488 T T A TGAACAAGACTCATAATGTAGCTCCTTAGCTGGATTCGTACCTGCCTAGATTCACCTGTGTGTTG
45488 T C A TGAACAAGACTCATAATGTAGCTCCTTGGCTGGATTCGTACCTGCCTAGATTCACCTGTGTGTTG
45488 IS [TC] GTTTGTGTGAGTTCAACACACAGGTGAATCTAGGCAGGTACGAATCCAGC[TC]AAGGAGCTACATTATGAGTCTTGTTCATGTAACTTACTTCAAATAGGTAA
45490 I A ACTTTACTGGCCTCTGTGGATTGATCTCTCTTTGACCTTCAA
45490 P C A CGCGCCGAGGCAGCCATCAGAATAAATGAAAAG
45490 P T A CGCGCCGAGGTAGCCCATCAGAATAAATGAAAAGA
45490 T C A GTTTTCTTTTCATTTATTCTGATGGGCTGTGAAGGTCAAAGAGAGATCAATCCACAGAGGCCAGTAAAGTTA
45490 T T A GTTTTCTTTTCATTTATTCTGATGGGCTATGAAGGTCAAAGAGAGATCAATCCACAGAGGCCAGTAAAGTTA
45490 IS [CT] TTACTCCTAACTTTACTGGCCTCTGTGGATTGATCTCTCTTTGACCTTCA[CT]AGCCCATCAGAATAAATGAAAAGAAAACATTCTAATATTTTTCCCATTA
45491 I S ACAATGAACAGCAATTTGAATTCACCATGAAATAGAAGCCTCACAGGA
45491 P G S CGCGCCGAGGCAAGTAATAGGTAGTGGTGGGT
45491 P' A S CGCGCCGAGGTAAGTAATAGGTAGTGGTGGGTY
45491 T G S AGCCACCCACCACTACCTATTACTTGCCTGTGAGGCTTCTATTTCATGGTGAATTCAAATTGCTTGTTCATTGTAG
45491 T A S AGCCACCCACCACTACCTATTACTTACCTGTGAGGCTTCTATTTCATGGTGAATTCAAATTGCTTGTTCATTGTAG
45491 IS [CA] TAGGAAAAAACATTTAGACTTAAAAAGCCACCCACCACTACCTATTACTT[CA]CCTGTGAGGCTTCTATTTCATGGTGAATTCAAATTGCTTGTTCATTGTAG
45492 I A CCCTAGGCAGAGCTTTTCAAACTATTTGTGGTGAATGACCAT
45492 P G A CGCGCCGAGGGTTGGCTTTGTTTGGTTCTTT
45492 P A A CGCGCCGAGGAATTGGCTTTGTTTGGTTCTTTTT
45492 T G A CTTAAAAAAGAACCAAACAAAGCCAACTGGTCATTCACCACAAATAGTTTGAAAAGCTCTGCCTAGGGTA
45492 T A A CTTAAAAAAGAACCAAACAAAGCCAATTGGTCATTCACCACAAATAGTTTGAAAAGCTCTGCCTAGGGTA
45492 IS [GA] TATTAGATACCCTAGGCAGAGCTTTTCAAACTATTTGTGGTGAATGACCA[GA]TTGGCTTTGTTTGGTTCTTTTTTAAGTTTCCAATCTACTGTGGACCAATA
45494 I A AGATGTTGGTGCTAAACTCATCTTAACTATTAAAGATAATCTTTACCTGTC
45494 P A A CGCGCCGAGCAGGGCTTCAGAAGTAACTTAAG
45494 P T A CGCGCCGAGGTGGGCTTCAGAAGTAACTTAAG
45494 T A A CAAACTTAAGTTACTTCTGAAGCCCTACAGGTAAAGATTATCTTTAATAGTTAAGATGAGTTTAGCACCAACATCT
45494 T T A CAAACTTAAGTTACTTCTGAAGCCCAACAGGTAAAGATTATCTTTAATAGTTAAGATGAGTTTAGCACCAACATCT
45494 IS [AT] AGATGTTGGTGCTAAACTCATCTTAACTATTAAAGATAATCTTTACCTGT[AT]GGGCTTCAGAAGTAACTTAAGTTTGATAACTGAGACAGAACAAACCTAAAA
45495 I A TGACATCTGGATAGTAGCAGGAATTTCAGAATAACCAAGTACTGATGTTTCT
45495 P A A CGCGCCGAGGACTGTCTCTTCAAATCCAGGTY
45495 P G A CGCGCCGAGGGCTGTCTCTTCAAATCCAGGY
45495 T A A AACAACCTGGATTTGAAGAGACAGTGAAACATCAGTACTTGGTTATTCTGAAATCCTGCTACTATCCAGATGTCA
45495 T G A AACAACCTGGATTTGAAGAGACAGCGAAACATCAGTACTTGGTTATTCTGAAATCCTGCTACTATCCAGATGTCA
45495 IS [AG] TGACATCTGGATAGTAGCAGGAATTTCAGAATAACCAAGTACTGATGTTTC[AG]CTGTCTCTTCAAATCCAGGTTGTTCCCTTCCAGGTTGATGAAACACAAGC
45499 I S GGAGCCTGTGAAATATGGGTAGGGCCATCTTTAGCT
45499 P C S CGCGCCGAGGGTTACAGTTGGGTATAAGCAGAA
45499 P T S CGCGCCGAGGATTACAGTTGGGTATAAGCAGAAA
45499 T C S TGATTTTCTGCTTATACCCAACTGTAAGCTAAAGATGGCCCTACGCATATTTCACAGGCTCCGA
45499 T T S TGATTTTCTGCTTATACCCAACTGTAATGCTAAAGATGGCCCTACGCATATTTCACAGGCTCCGA
45499 IS [CT] AGAACAGTTCCATTGGCCATGCTGATTTTCTGCTTATACCCAACTGTAA[CT]GCTAAAGATGGCCCTACGCATATTTCACAGGCTCCGAAGAAGATAATTTG
45501 I S GCTAGACATTGTCTAAGGGCTTACATGACTAACTCACTTAACCATT
45501 P G S CGCGCCGAGGCTATGTGGTAGGCTTCTAATTT
45501 P C S CGCGCCGAGGGCTATGTGGTAGGCTTCTAATTT
45501 T G S GAGCAAATTAGAAGCCTACCACATAGGATGGTTAAGTGAGTTAGTCATGTAAGCGCCTTAGACAATGTCTAGCAC
45501 T C S GAGCAAATTAGAAGCCTACCACATAGCATGGTTAAGTGAGTTAGTCATGTAAGCGCCTTAGACAATGTCTAGCAC
45501 IS [GC] CTAAGTTTCTAGCTAGGTAACCTTGAGCAAATTAGAAGCCTACCACATAG[GC]ATGGTTAAGTGAGTTAGTCATGTAAGCGCCTTAGACAATGTCTAGCACCT
45502 I A CTCTCCCTGCATAAATTATCTTCCAGCCTTTGACTGACCTC
45502 P T A CGCGCCGAGGTTGAACACTTTACCCCACAAA
45502 P A A CGCGCCGAGGATGAACACTTTACCCCACAAA
45502 T T A GTTCTTTGTGGGGTAAAGTGTTCAAAGGTCAGTCAAAGGCTGGAAGATAATTTATGCAGGGAGAGGC
45502 T A A GTTCTTTGTGGGGTAAAGTGTTCATAGGTCAGTCAAAGGCTGGAAGATAATTTATGCAGGGAGAGGC
45502 IS [TA] CTGAAGTGGCCTCTCCCTGCATAAATTATCTTCCAGCCTTTGACTGACCT[TA]TGAACACTTTACCCCACAAAGAACTGCTGAGGGTAACTTCCTTTGAGAAA
45504 I A TTGTCATATACACTCCGTATAGACCAGAAATTTTCATAGAAAATCAGCGGT
45504 P G A CGCGCCGAGGGAAACCTAGTTAACAATTCACACTG
45504 P A A CGCGCCGAGGAAAACCTAGTTAACAATTCACACTG
45504 T G A ATCACAGTGTGAATTGTTAACTAGGTTTCCCGCTGATTTCTATGAAAATTTCTGGTCTATACGGAGTGTATATGACAA
45504 T A A ATCACAGTGTGAATTGTTAACTAGGTTTCCCGCTGATTTCTATGAAAATTTCTGGTCTATACGGAGTGTATATGACAA
45504 IS [GA] TTGTCATATACACTCCGTATAGACCAGAAATTTTCATAGAAAATCAGCGG[GA]AAACCTAGTTAACAATTCACACTGTGATTCAGCTGACTTGGGATTCTGCA
45510 I A GCACATCTAACATGGCAGCAGACAAACAGCAAATGAGAAT
45510 P C A CGCGCCGAGGCCAAGCAAACGGGGATT
45510 P A A CGCGCCGAGGACAAGCAAACGGGGATTC
45510 T C A AGGGGAATCCCCGTTTGCTTGGTTCTCATTTGCTGTTTGTCTGCTGCCATGTTAGATGTGCCT
45510 T A A AGGGGAATCCCCGTTTGCTTGTTTCTCATTTGCTGTTTGTCTGCTGCCATGTTAGATGTGCCT
45510 IS [CA] GAAGGTGGAAGGCACATCTAACATGGCAGCAGACAAACAGCAAATGAGAA[CA]CAAGCAAACGGGGATTCCCCTTATAAAGCCATCAGATCTCGTGAGACTTA
45518 I A ACTGTTCAATTTGATCATCACAGTTTAGGTCTCTAGCAAGAAGAAAAAGAT
45518 P C A CGCGCCGAGGCGACTTTCACGTATGTGACAA
45518 P A A CGCGCCGAGGAGACTTTCACGTATGTGACAAAT
45518 T C A ATGTATTTGTCACATAGGTGAAAGTCGTCTTTTTCTTCTTGCTAGAGACCTAAACTGTGATGATCAAATTGAACAGT
45518 T A A ATGTATTTGTCACATAGGTGAAAGTCTTCTTTTTCTTCTTGCTAGAGACCTAAACTGTGATGATCAAATTGAACAGT
45518 IS [CA] ACTGTTCAATTTGATCATCACAGTTTAGGTCTCTAGCAAGAAGAAAAAGA[CA]GACTTTCACGTATGTGACAAATACATAAATAGGATACAAATCGGATTTGT
45519 I A CCGCAGCTGCAGACACCGCGACAT
45519 P A A CGCGCCGAGGATCTCAAGACACTTAAGCTGG
45519 P G A CGCGCCGAGGGTCTCAAGACACTTAAGCTGG
45519 T A A GCTTCCAGCTTAAGTGTCTTGAGACTTGTCCCGTGTCTCGCAGCTGCGGCT
45519 T G A GCTTCCAGCTTAAGTGTCTTGAGACTGTCGGGTGTCTCGCAGCTGCGGCT
45519 IS [AG] CAAAGCCTCCGCAGGGGCGCTGGAGAAGCCGCAGCTGCGACACCGCGACA[AG]TCTCAAGACACTTAAGCTGGAAGCGAATGTGGCATTTCAAAGAGGCAGGA
45546 I A GCCAAACCAACAACAGCTAAACTGCAGGAGGCTAA
45546 P C A CGCGCCGAGGCCCAGCTTATTAGGTATTTGACTT

FIGURE 129F

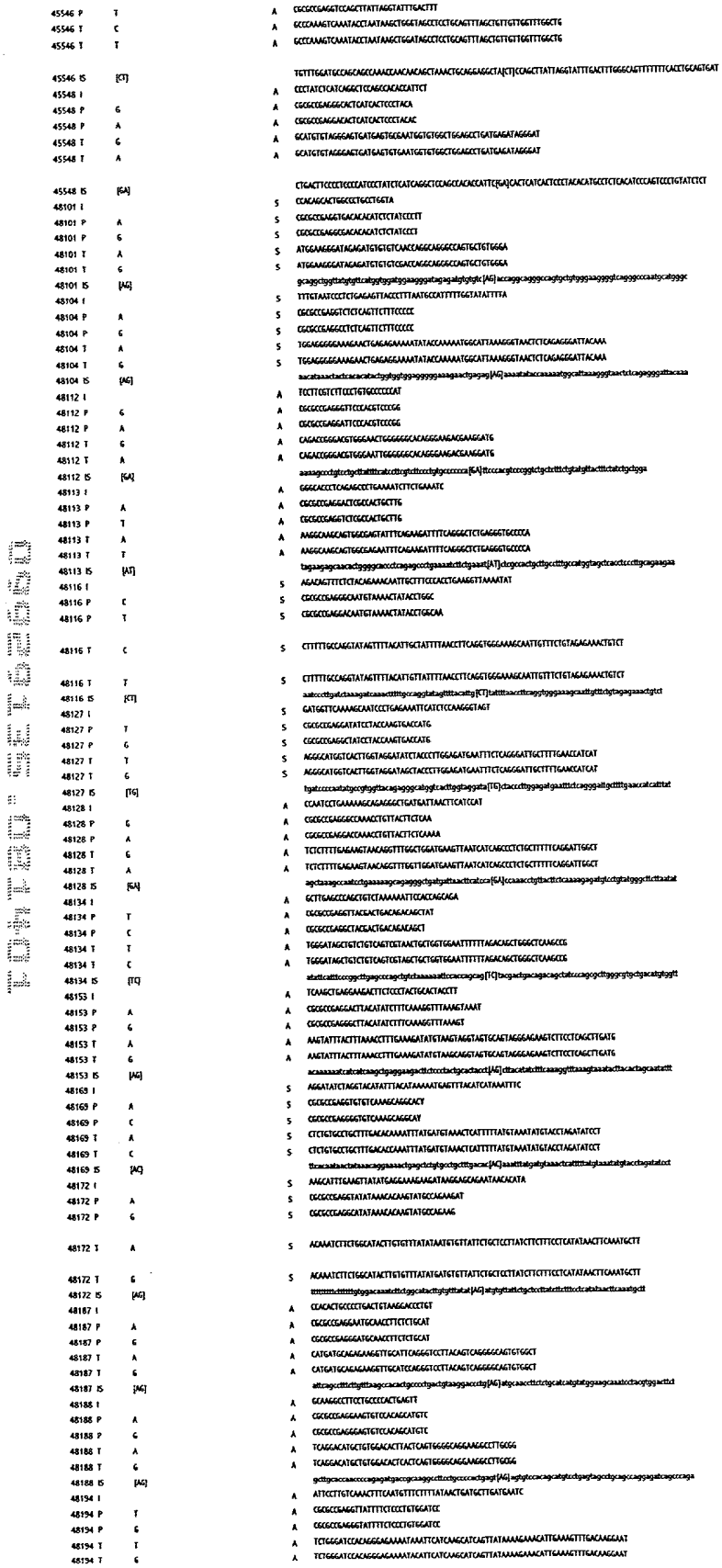


FIGURE 129F

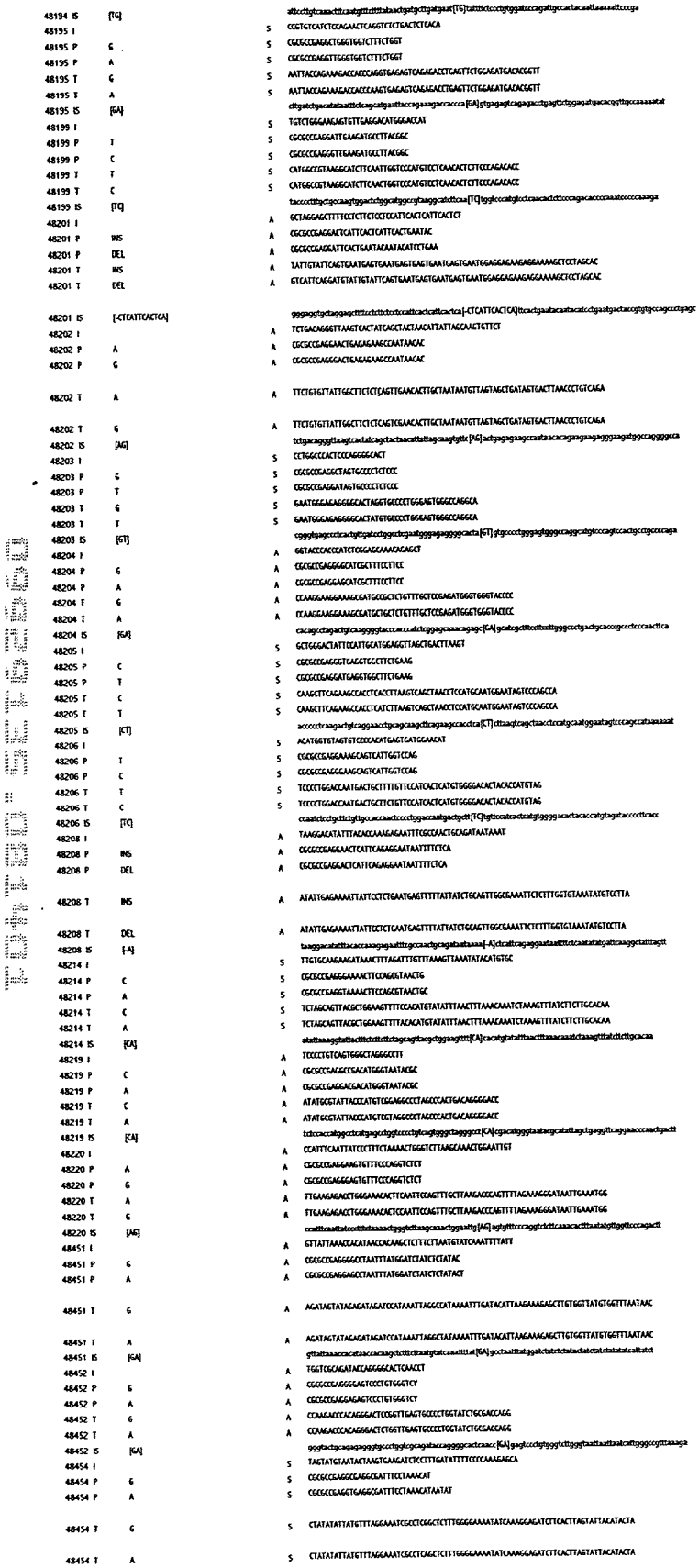


FIGURE 129F

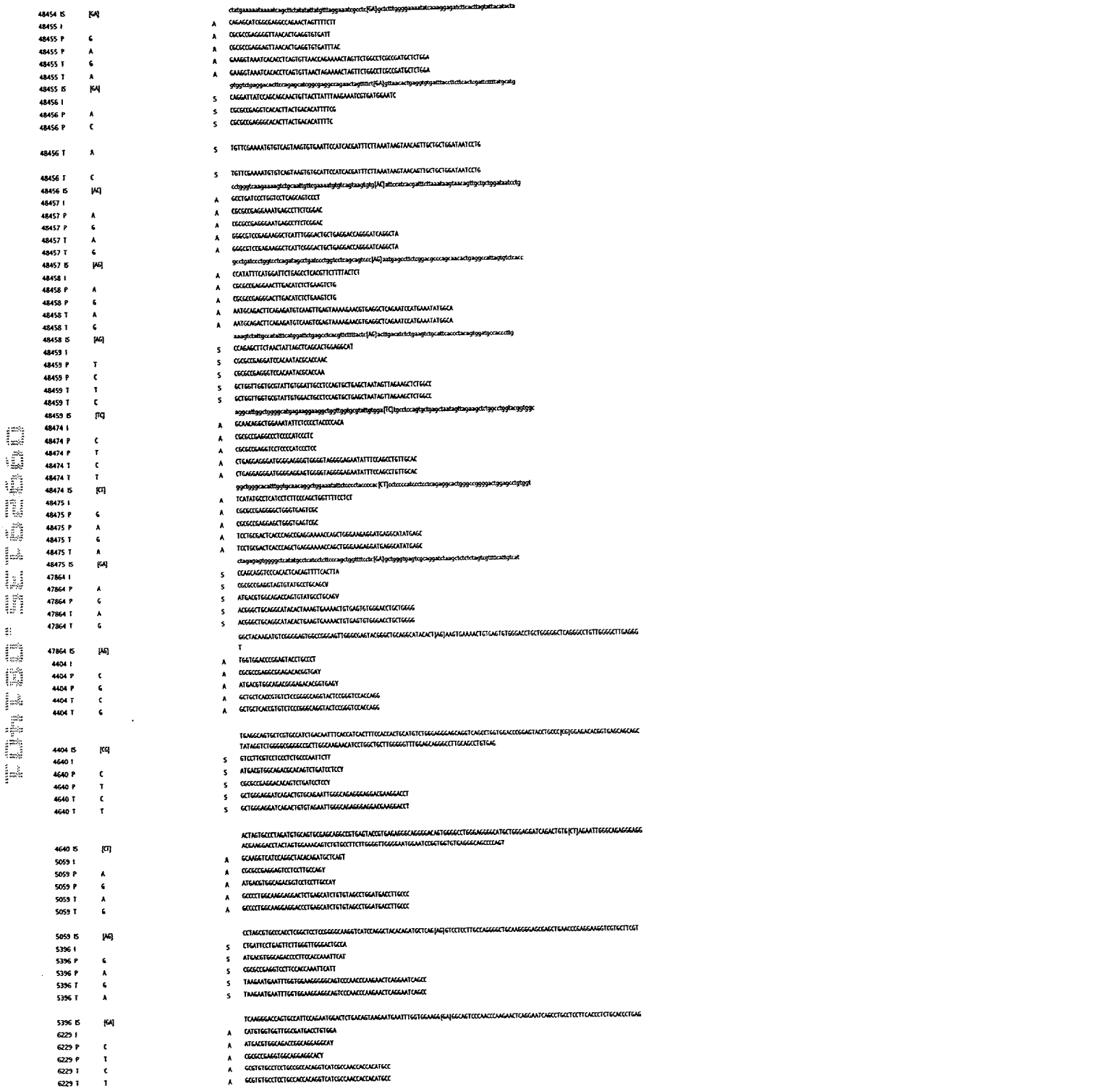


FIGURE 129F

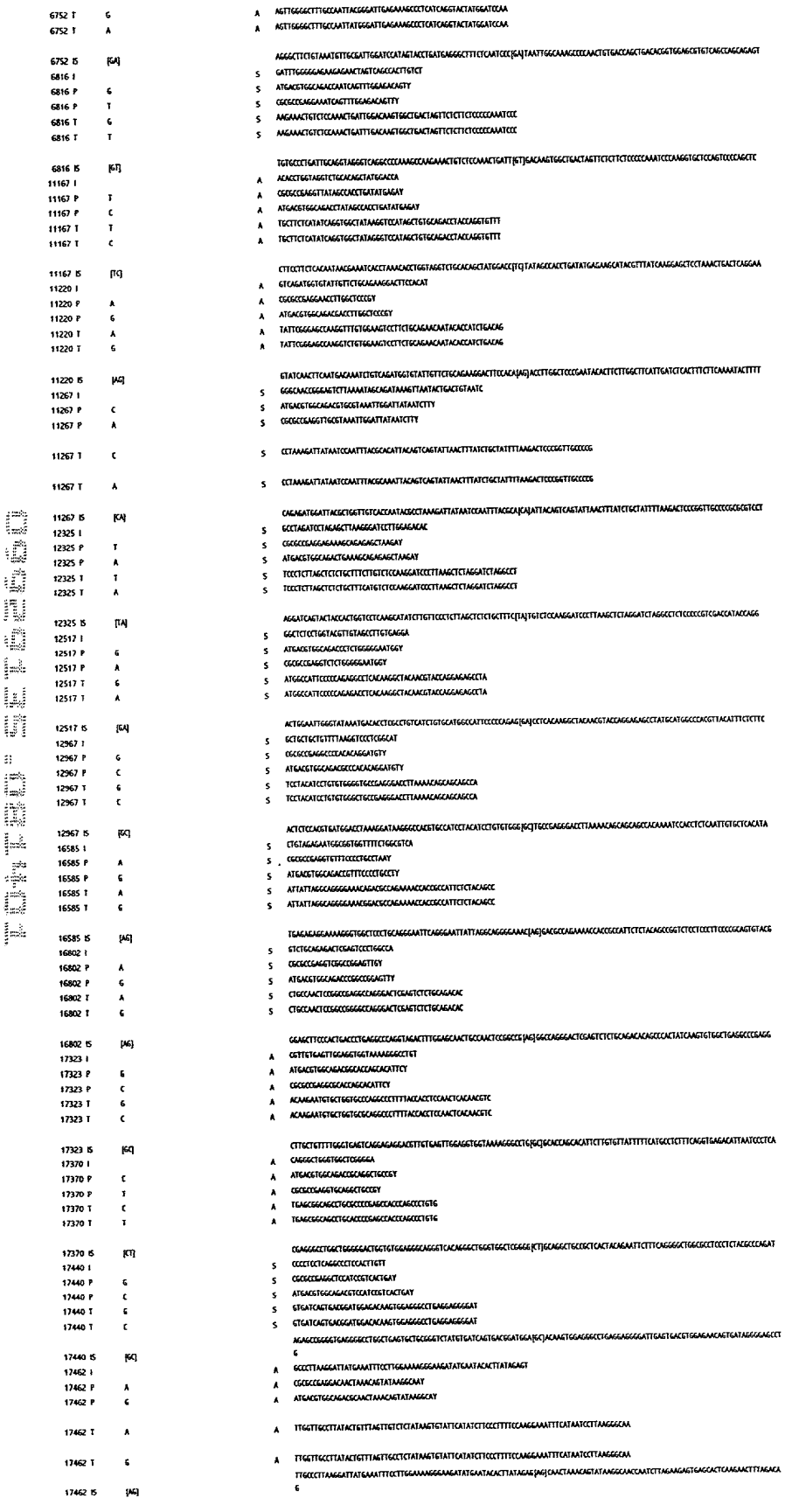
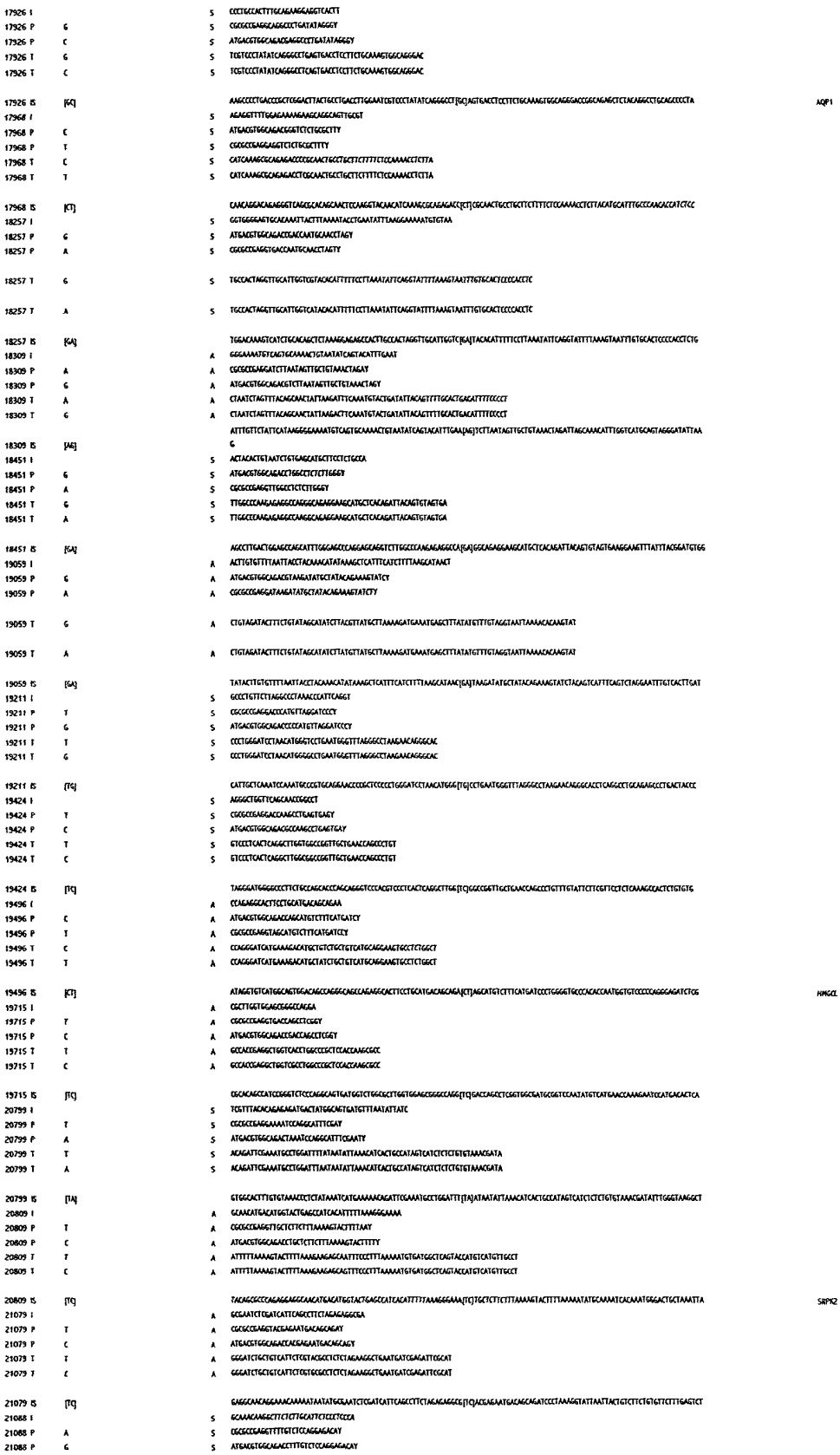

6752 T G A AGTTGGGGCTTTGCCAATTACGGGATTGAGAAAGCCCTCATCAGGTACTATGGATCCAA
6752 T A A AGTTGGGGCTTTGCCAATTATGGGATTGAGAAAGCCCTCATCAGGTACTATGGATCCAA
6752 15 [GA] AGGGCTTCTGTAAATGTTGCGATTGGATCCATAGTACCTGATGAGGGCTTTCTCAATCCC[GA]TAATTGGCAAACCCCCAACTGTGACCAGCTGACACGGTGGAGCGTGTCAGCCAGCAGAGT
6816 I S GATTTGGGGGAGAAGAGAACTAGTCAGCCACTTGTCT
6816 P G S ATGACGTGGCAGACCAATCAGTTTGGAGACAGTY
6816 P T S CGCGCCCAGGAAATCAGTTTGGAGACAGTTY
6816 T G S AAGAAACTGTCTCCAAACTGATTGGACAAGTGGCTGACTAGTTCTCTTCTCCCCCAAATCCC
6816 T T S AAGAAACTGTCTCCAAACTGATTTGACAAGTGGCTGACTAGTTCTCTTCTCCCCCAAATCCC
6816 15 [GT] TGTGCCCTGATTGCAGGTAGGGTCAGGCCCCAAGCCAGAAACTGTCTCCAAACTGATT[GT]GACAAGTGGCTGACTAGTTCTCTTCTCCCCCAAATCCCAAGGTGCTCCAGTCCCAGCTC
11167 I A ACAGCTGGTAGGTCTGCACAGCTATGGACCA
11167 P T A CGCGCCGAGGTTATAGCCACCTGATATGAGAY
11167 P C A ATGACGTGGCAGACCTATAGCCACCTGATATGAGAY
11167 T T A TGCTTCTCATATCAGGTGGCTATAAGGTCCATAGCTGTGCAGACCTACCAGGTGTTT
11167 T C A TGCTTCTCATATCAGGTGGCTATAGGGTCCATAGCTGTGCAGACCTACCAGGTGTTT
11167 15 [TC] CTTCCTTCTCACAATAACGAAATCACCTAAACACCTGGTAGGTCTGCACAGCTATGGACCT[C]TATAGCCACCTGATATGAGAAGCATACGTTTATCAAGGAGCTCCTAAACTGACTCAGGAA
11220 I A GTCAGATGGTGTATTGTTCTGCAGAAGGACTTCCACAT
11220 P A A CGGCCGAGGAACCTTGGCTCCCGY
11220 P G A ATGACGTGGCAGACGACCTTGGCTCCCGY
11220 T A A TATTCGGGAGCCAAGGTTCTGTGGAAGTCCTTCTGCAGAACAATACACCATCTGACAG
11220 T G A TATTCGGGAGCCAAGGTCTGTGGAAGTCCTTCTGCAGAACAATACACCATCTGACAG
11220 15 [AG] GTATCAACTTCAATGACAAATCTGTCAGATGGTGTATTGTTCTGCAGAAGGACTTCACA[AG]ACCTTGGCTCCCGAATACACTTCTTGGCTTCATTGATCTCACTTTCTTCAAAATACTTTT
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11267 P A S CGCGCCGAGGTTGCGTAAATTGGATTATAATCTTY
11267 T C S CCTAAAGATTATAATCAATTTACGCACATTACAGTCAGTATTAACTTTATCTGCTATTTTAAGACTCCCGGTTGCCCCG
11267 T A S CCTAAAGATTATAATCAATTTACGCAAATTACAGTCAGTATTAACTTTATCTGCTATTTTAAGACTCCCGGTTGCCCCG
11267 15 [CA] CAGAGATGGATTACGCTGGTTGTCACCAATAGCCTAAAGATTATAATCAATTTACGCA[CA]ATTACAGTCAGTATTAACTTTATCTGCTATTTTAAGACTCCCGGTTGCCCCGCGCGTCCT
12325 I S GCCTAGATCCTAGAGCTTAAGGGATCCTTGGAGACAC
12325 P T S CGCGCCCAGGAGAAAGCAGAGAGCTAAGAY
12325 P A S ATGACGTGGCAGACTGAAAGCAGAGAGCTAAGAY
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12325 T A S TCCCTCTTAGCTCTCTGCTTTCATGTCTCCAAGGATCCCTTAAGCTCTAGGATCTAGGCCT
12325 15 [TA] AGGATCAGTACTACCACTGGTCCTCAAGCATATCTTGTTCCCTCTTAGCTCTCTGCTTTC[TA]TGTCTCCAAGGATCCCTTAAGCTCTAGGATCTAGGCCTCTCCCCCGTCGACCATACCAGG
12517 I S GGCTCTCCTGGTACGTTGTAGCCTTGTGAGGA
12517 P G S ATGACGTGGCAGACCCTCTGGGGGAATGGY
12517 P A S CGCGCCGAGGTCTCTGGGGGAATGGY
12517 T G S ATGGCCATTCCCCCAGAGGCCTCACAAGCCTACAACGTACCAGGAGAGCCTA
12517 T A S ATGGCCATTCCCCCAGAGACCTCACAAGCCTACAACGTACCAGGAGAGCCTA
12517 15 [GA] ACTGGAATTGGGTATAAATGACACCTCGCCTGTCATCTGTGCATGGCCATTCCCCCAGAG[GA]CCTCACAAGGCTACAACGTACCAGGAGAGCCTATGCATGGCCCACGTTACATTTCTCTTC
12967 I S GCTGCTGCTGTTTTAAGGTCCCTCGGCAT
12967 P G S CGCGCCGAGGCCCCACACAGGATGTY
12967 P C S ATGACGTGGCAGACGCCCACACAGGATGTY
12967 T G S TCCTACATCCTGTGTGGGGCTGCCGAGGCACCTTAAAACAGCAGCAGCCA
12967 T C S TCCTACATCCTGTGTGGGGCTGCCGAGGCACCTTAAAACAGCAGCAGCCA
12967 15 [GC] ACTCTCCACGTGATGGACCTAAAGGATAAGGGCCACGTGCCATCCTACATCCTGTGTGGG[GC]TGCCGAGGGACCTTAAAACAGCAGCAGCCACAAAATCCAECTCTCAATTGTGCTCACATA
16585 I S CTGTAGAGAATGGCGGTGGTTTTCTGGCGTCA
16585 P A S CGCGCCGAGGTGTTTCCCCTGCCTAAY
16585 P G S ATGACGTGGCAGACCGTTTCCCTGCCTY
16585 T A S ATTATTAGGCAGGGGAAACAGACGCCAGAAAACCACCGCCATTCTCTACAGCC
16585 T G S ATTATTAGGCAGGGGAAACAGACGCCAGAAAACCACCGCCATTCTCTACAGCC
16585 15 [AG] TGAGACAGGAAAAGGGTGGCTCCCTGCAGGGAATTCAGGGAATTATTAGGCAGGGGAAAC[AG]GACGCCAGAAAACCACCCCCATTCTCTACAGCCGGTCTCCTCCCTTCCCCGCAGTGTACG
16802 I S GTCTGCAGAGACTCGAGTCCCTGGCCA
16802 P A S CGCGCCGAGGTCGGCCGGAGTTGY
16802 P G S ATGACGTGGCAGACCGGCCGGAGTTY
16802 T A S CTGCCAACTCCGGCCGAGGCCAGGGACTCGAGTCTCTGCAGACAC
16802 T G S CTGCCAACTCCGGCCGGGCCAGGGACTCGAGTCTCTGCAGACAC
16802 15 [AG] GGAGCTTCCCACTGACCCTGAGGCCCAGGTAGACTTTGGAGCAACTGCCAACTCCGGCCC[AG]GGCCAGGGACTCGAGTCTCTGCAGACACAGCCCACTATCAAGTGTGGCTGAGGCCCGAGG
17323 I A CGTTGTGAGTTGCAGGTGGTAAAAGGCCTGT
17323 P G A ATGACGTGGCAGACGGCACCAGCACATTCY
17323 P C A CGCGCCGAGGCGCACAGCACATTCY
17323 T G A ACAAGAATGTGCTGGTGCCCAGGCCCTTTTACCACCTCCAACTCACAACGTC
17323 T C A ACAAGAATGTGCTGGTGCGCAGGCCCTTTTACCACCTCCAACTCACAACGTC
17323 15 [GC] CTTGCTGTTTTGGGTGAGTCAGCAGAGAGGACGTTGTGAGTTGGAGGTGGTAAAAGGGCCT[GC]GCCACCAGCACATCTCTGTGTTATTTTTCATGCCTCTTTCAGGTGAGACATTAATCCCTCA
17370 I A CAGGGCTGGGTGGCTCGGGGA
17370 P C A ATGACGTGGCAGACCGCAGGCTGCCGY
17370 P T A CGCGCCGAGGTGCAGGCTGCCGY
17370 T C A TCAGCGGCAGCCTGCGCCCCGAGCCACCCAGCCCTGTG
17370 T T A TCAGCGGCAGCCTGCACCCCGAGCCACCCAGCCCTGTG
17370 15 [CT] CGAGGGCCTGACTGGGGGAACTGCTGTGGAGGGCAGGGTCACAGGGCTGGGTGGCTCGGGG[CT]GCAGGCTGCCGCTCACTACAGAATTCTTTCAGGGGCTGGCGCCTCCCTCTACGCCCAGAT
17440 I S CCCCTCCTCAGGCCCTCCACTTGTT
17440 P G S CGCGCCGAGGCTCCATCCGTCACTGAY
17440 P C S ATGACGTGGCAGACGTCCATCCGTCACTGAY
17440 T G S GTGATCAGTGAGGGATGGAGACAAGTGGAGGGCCTGAGGAGGGGAT
17440 T C S GTGATCAGTGAGGGATGGACACAAGTGGAGGGCCTGAGGAGGGGAT
17440 15 [GC] AGAGCGGGGGTGAGGGGCCTGGCTGAGTGCTGCGGGTCTATGTGATCAGTGACGGATGGA[GC]ACAAGTGGAGGGCCTGAGGAGGGGATTGAGTGACGTGGAGAACAGTGATAGGGGAGCCT
17462 I A GCCCTTAAGGATTATGAAATTTCCTTGGAAAAGGGAAGATATGAATACACTTATAGAGT
17462 P A A CGCGCCGAGGACAACTAAACAGTATAAGGCAAT
17462 P G A ATGACGTGGCAGACGCAACTAAACAGTATAAGGCAY
17462 T A A TTGGTTGCCTTATACTGTTTAGTTGTCTCTATAAGTGTATTCATATCTTCCCTTTTCCAAGGAAATTTCATAATCCTTAAGGGCAA
17462 T G A TTGGTTGCCTTATACTGTTTAGTTGCCTCTATAAGTGTATTCATATCTTCCCTTTTCCAAGGAAATTTCATAATCCTTAAGGGCAA
17462 15 [AG] TTGCCCTTAAGGATTATGAAATTTCCTTGGAAAAGGGAAGATATGAATACACTTATAGAG[AG]CAACTAAACAGTATAAGGCAACCAATCTTAGAAGAGTGAGCACTCAAGAACTTTAGAACA
G

FIGURE 129F



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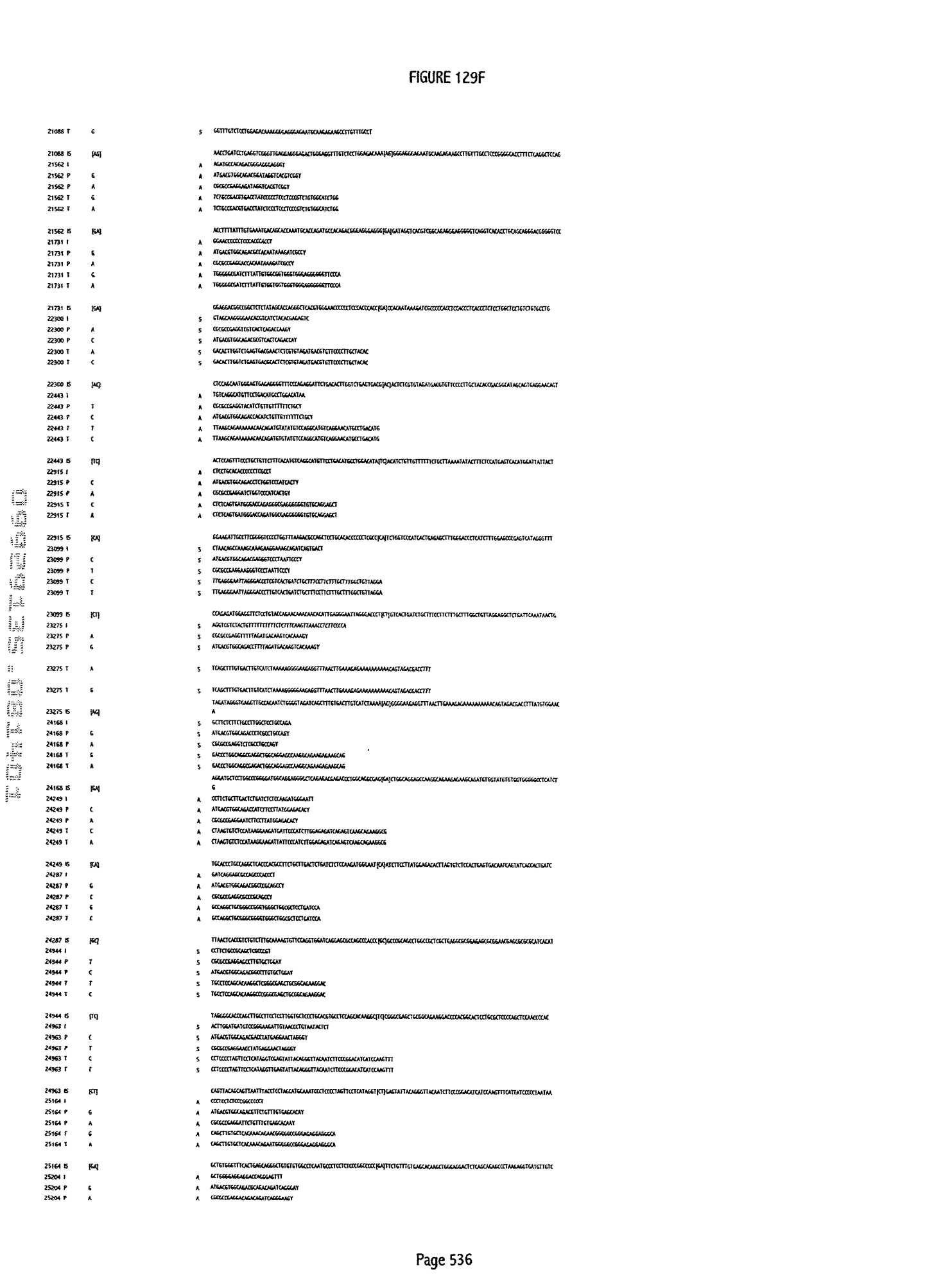




FIGURE 129F

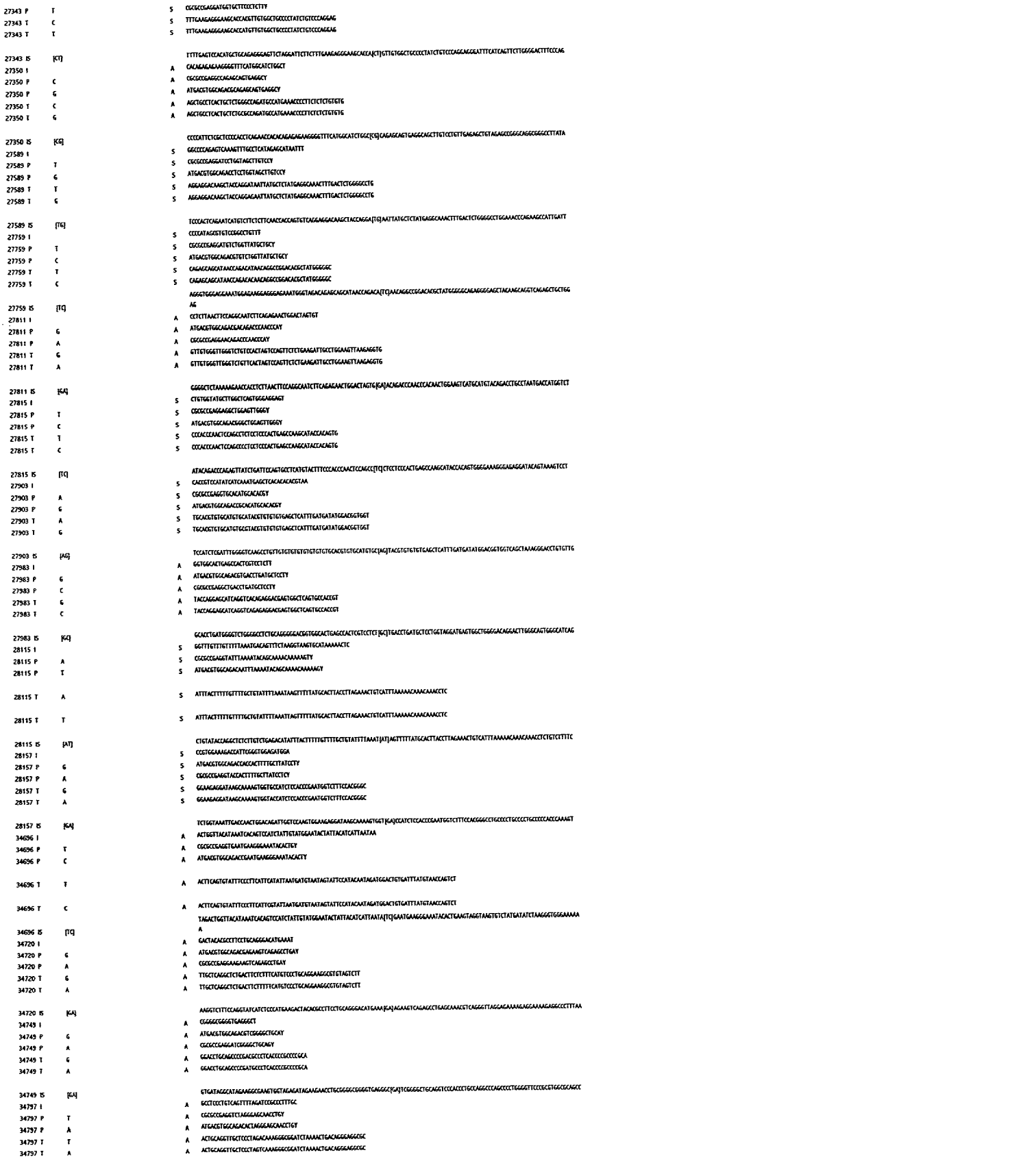
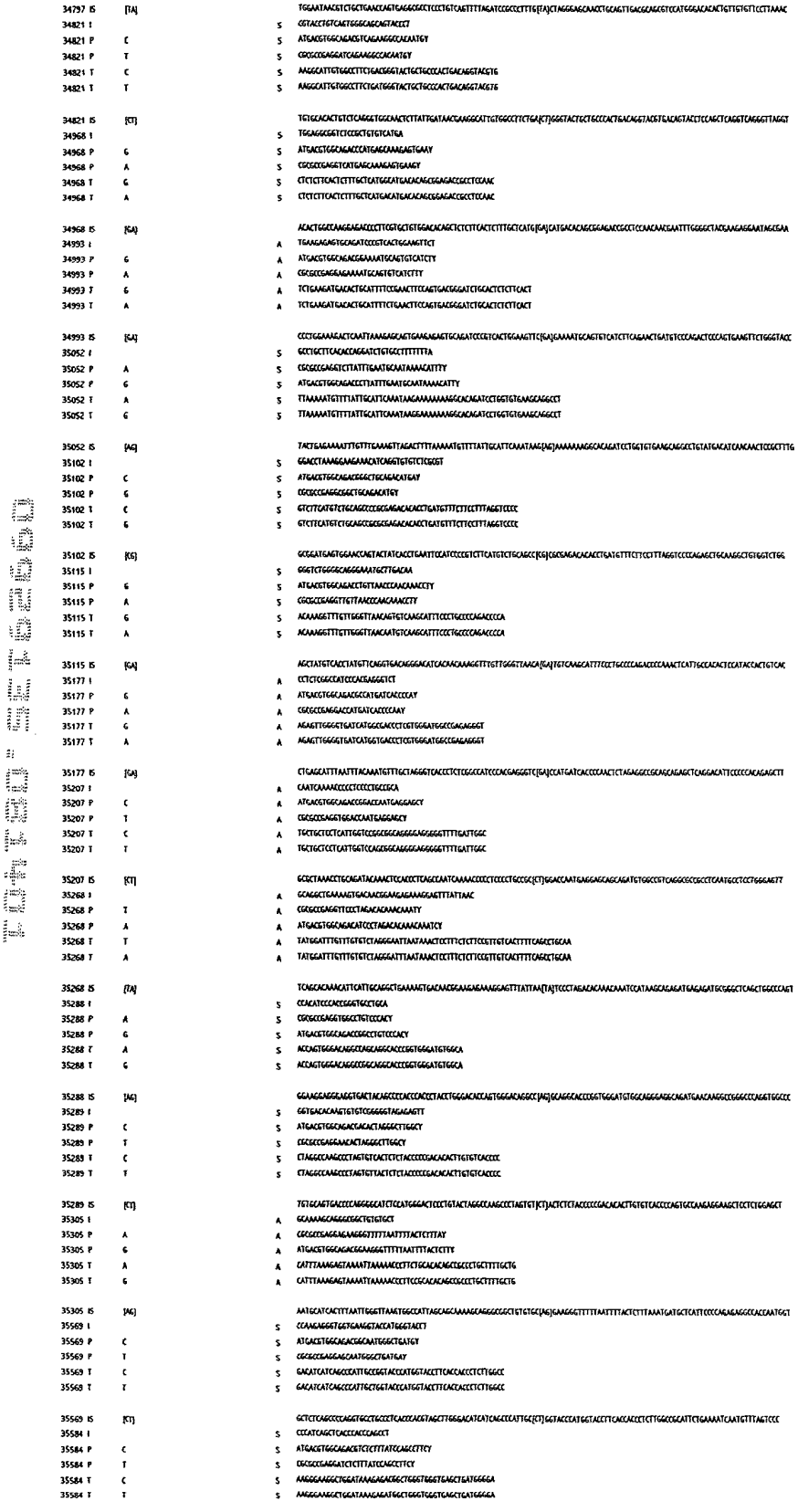

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27589 P T S CGCGCCCAGGATCCTGGTAGCTTGTCCY
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34720 T A A TTGCTCAGGCTCTGACTTCTTTTTCATGTCCCTGCAGGAAGGCGTGTAGTCTT
34720 IS [GA] AAGGTCTTTCCAGGTATCATCTCCCATGAAGACTACAGGCCTTCCTGCAGGGGACATGAAA[GA]AGAAGTCAGAGCCTGAGCAAACGTCAGGGTTAGGAGAAAAGAGGAAAAGAGGCCCTTTAA
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FIGURE 129F



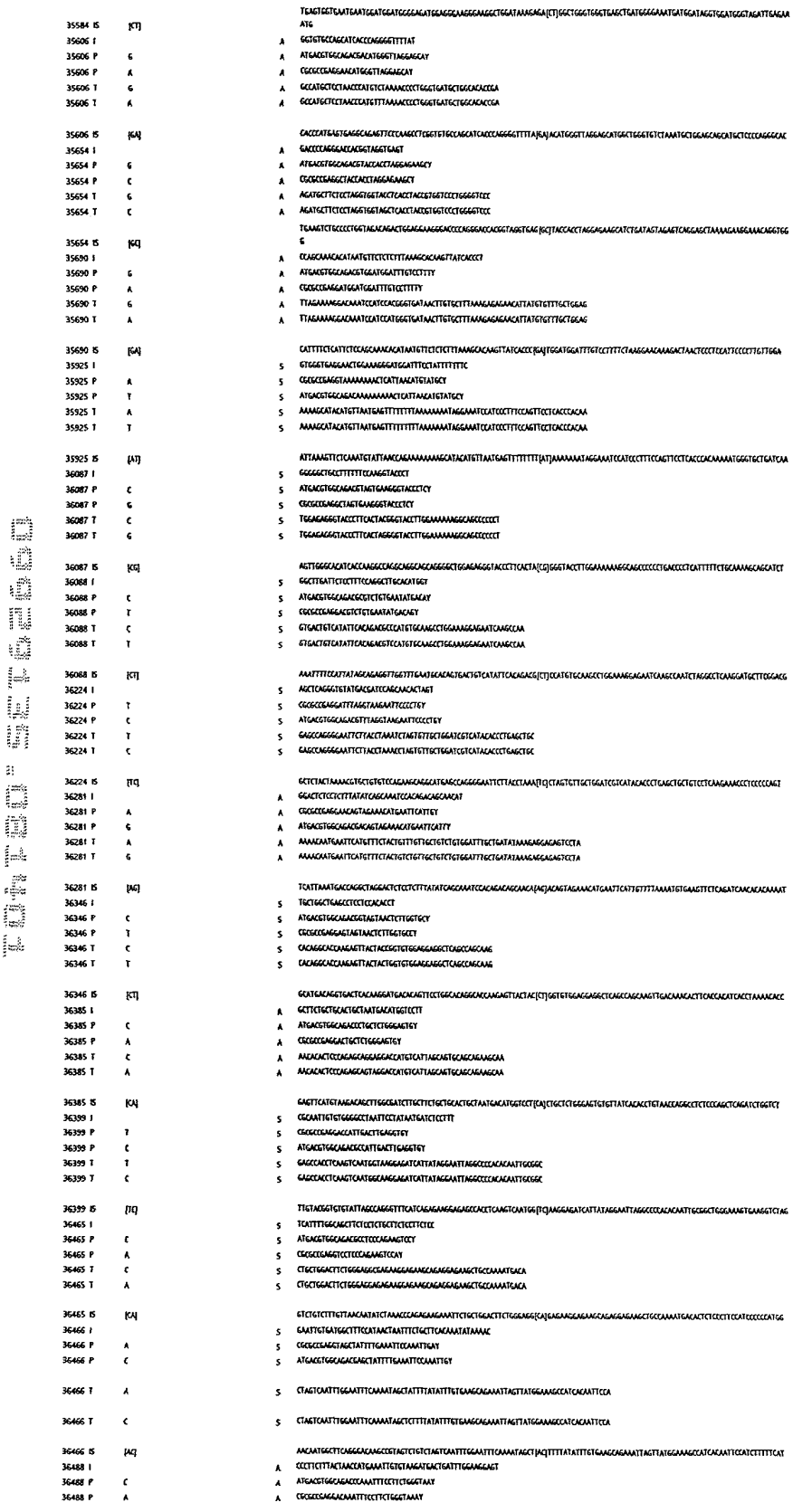
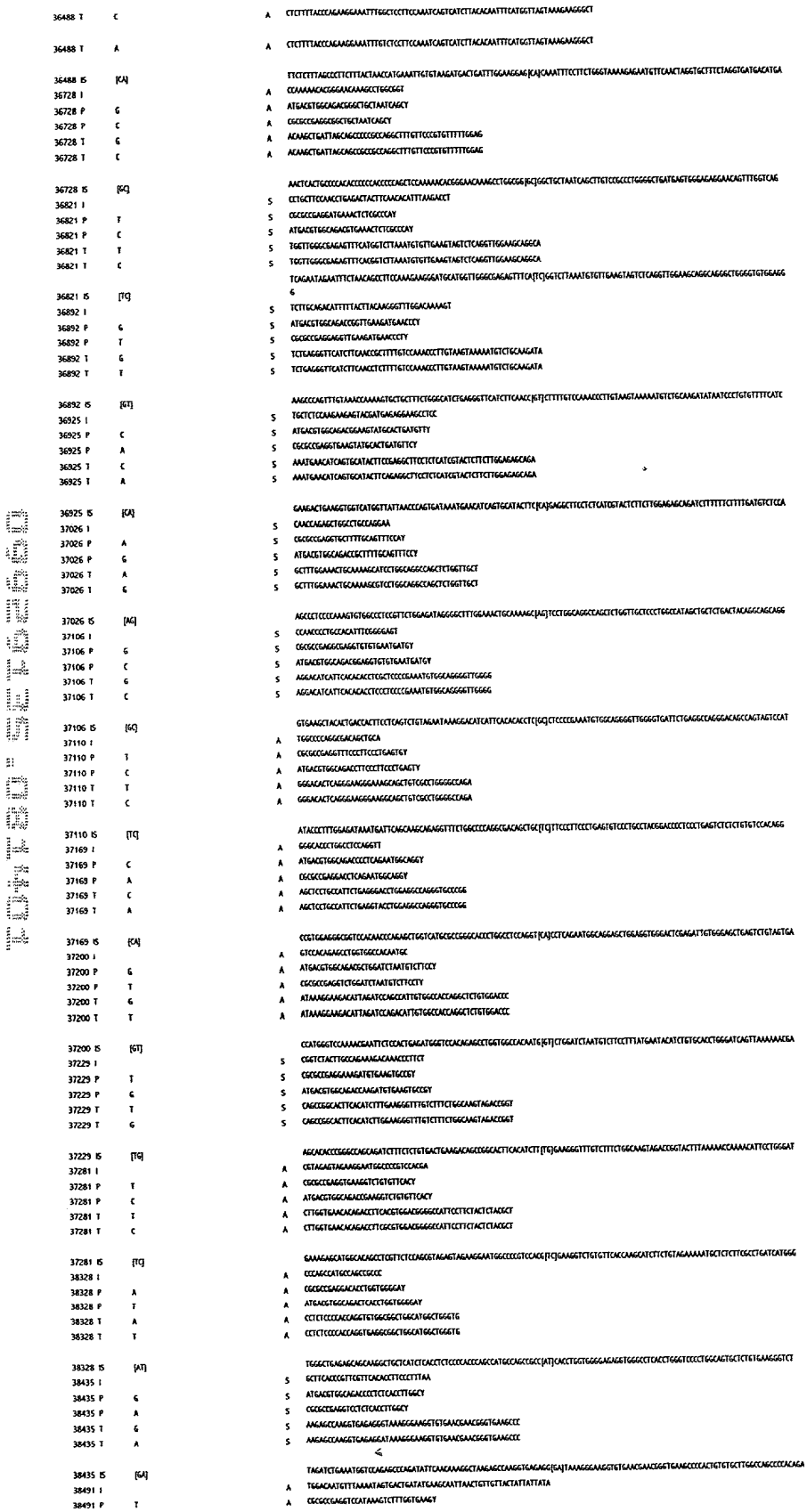


FIGURE 129F



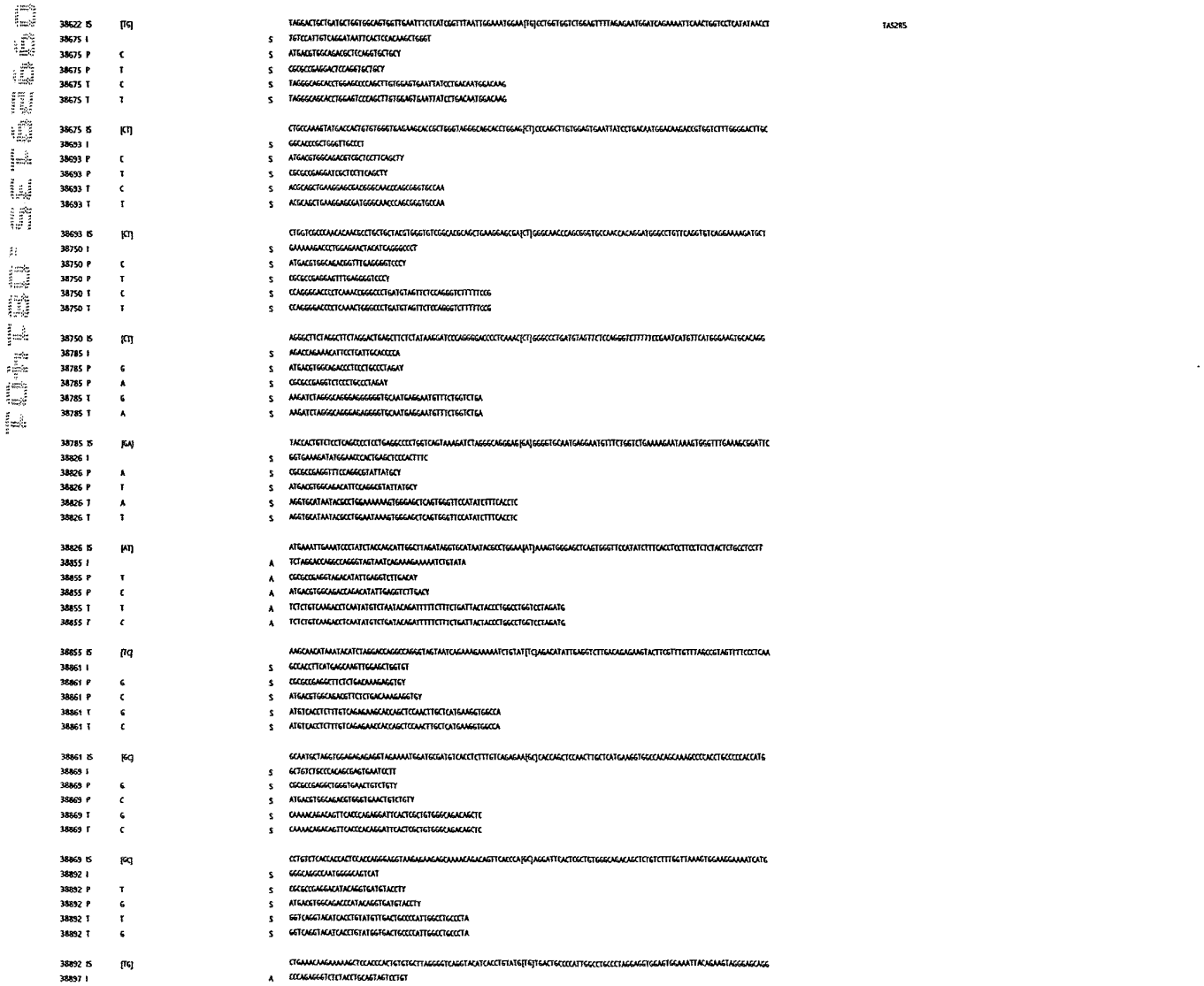


FIGURE 129F

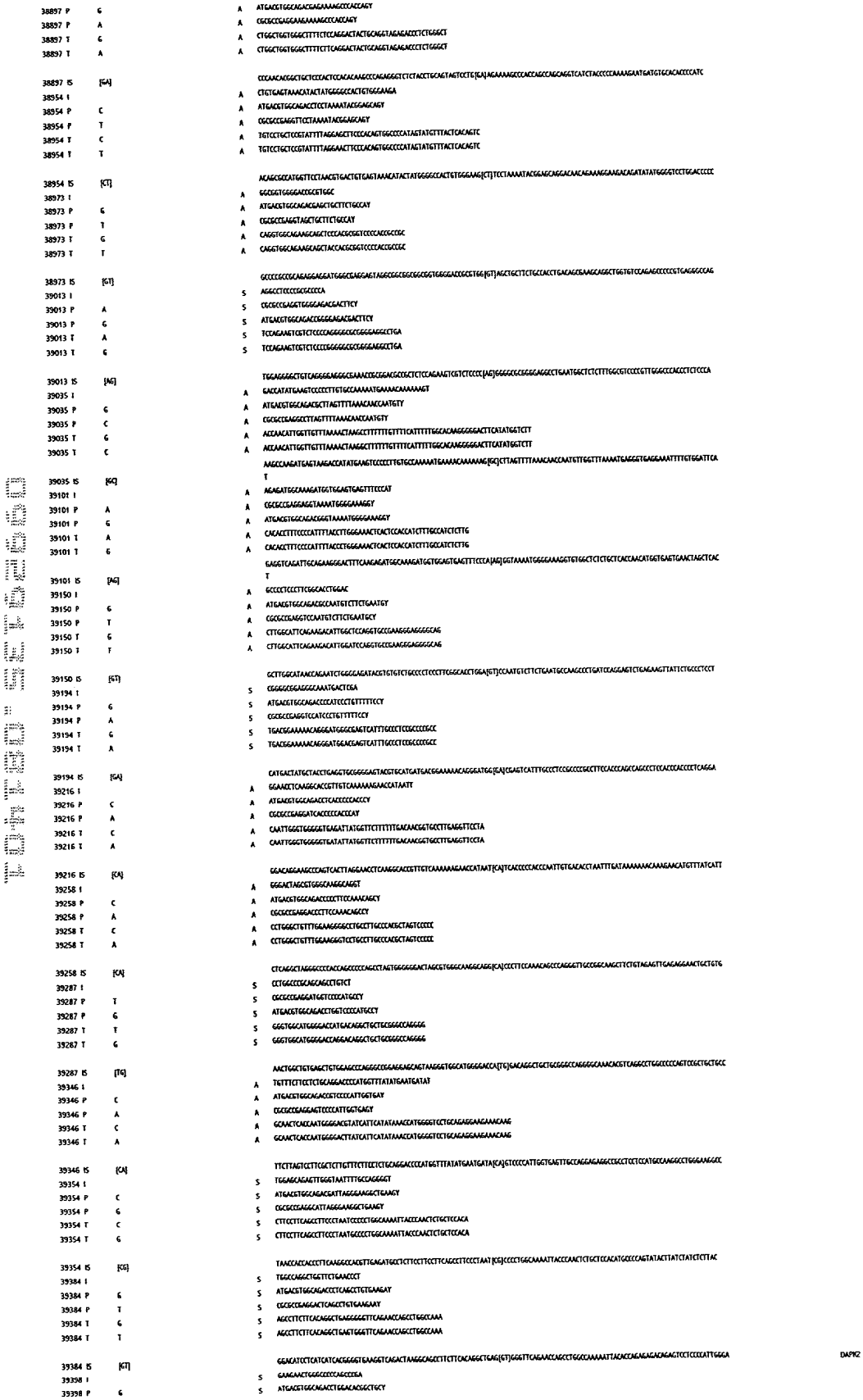


FIGURE 129F

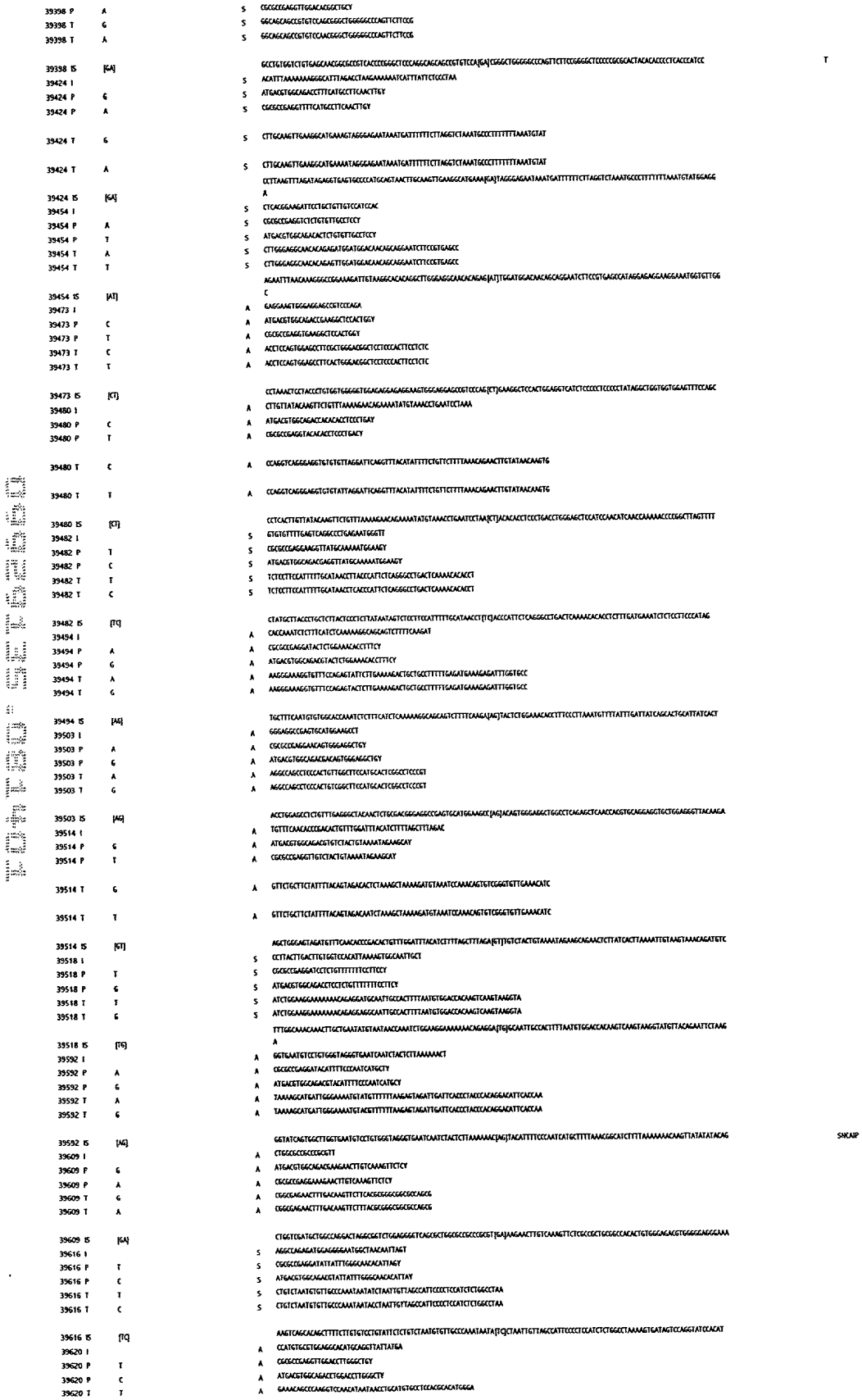
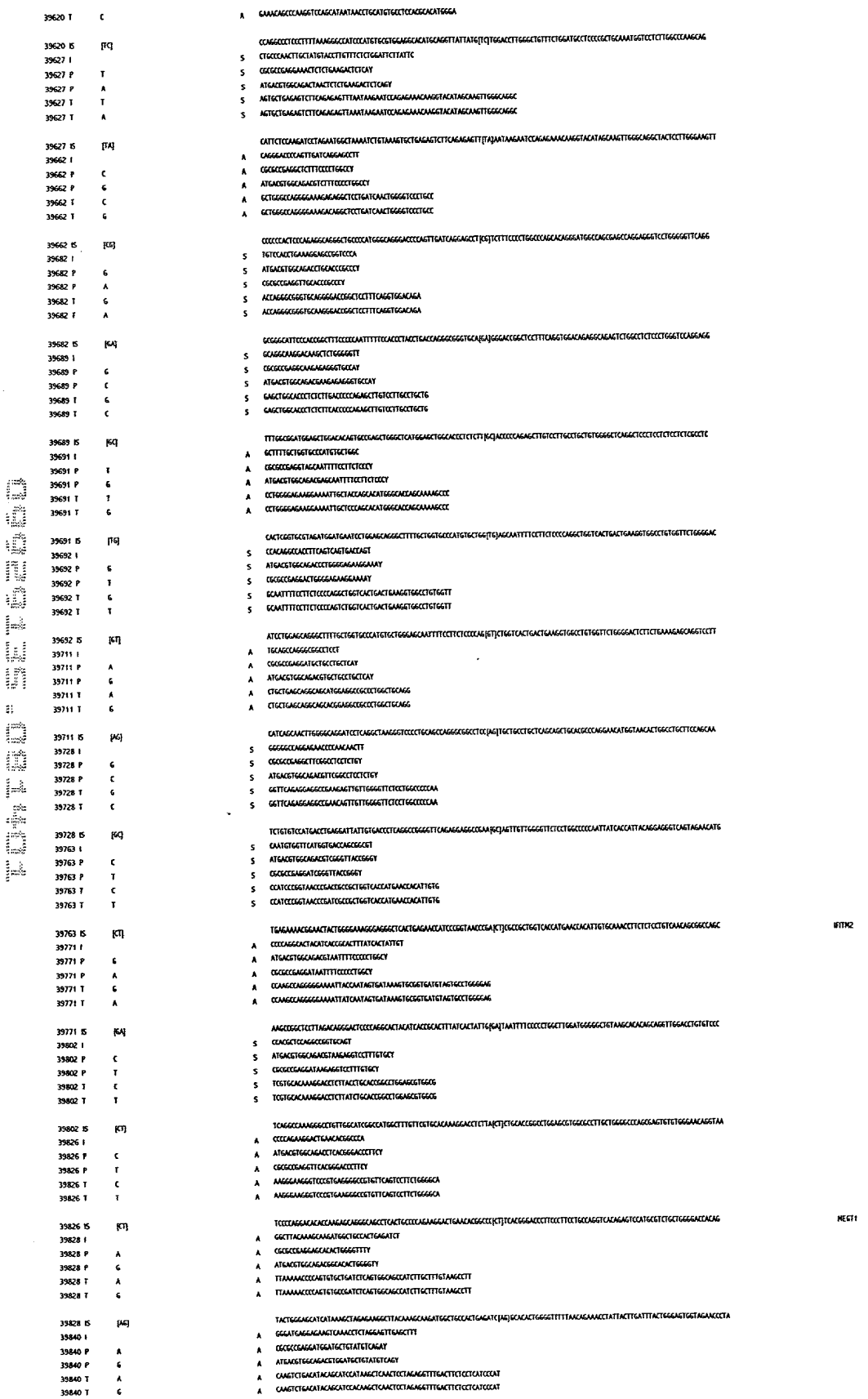


FIGURE 129F



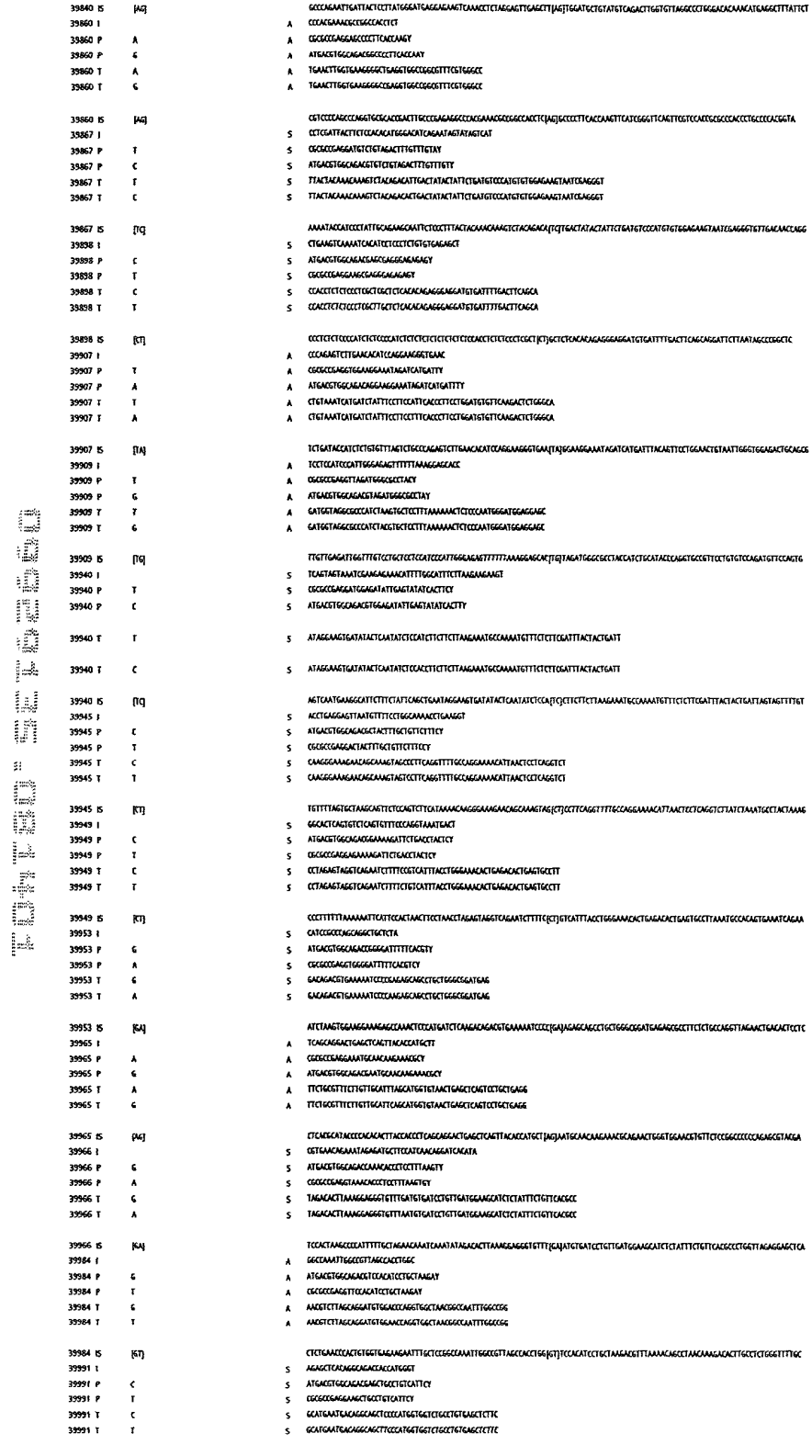
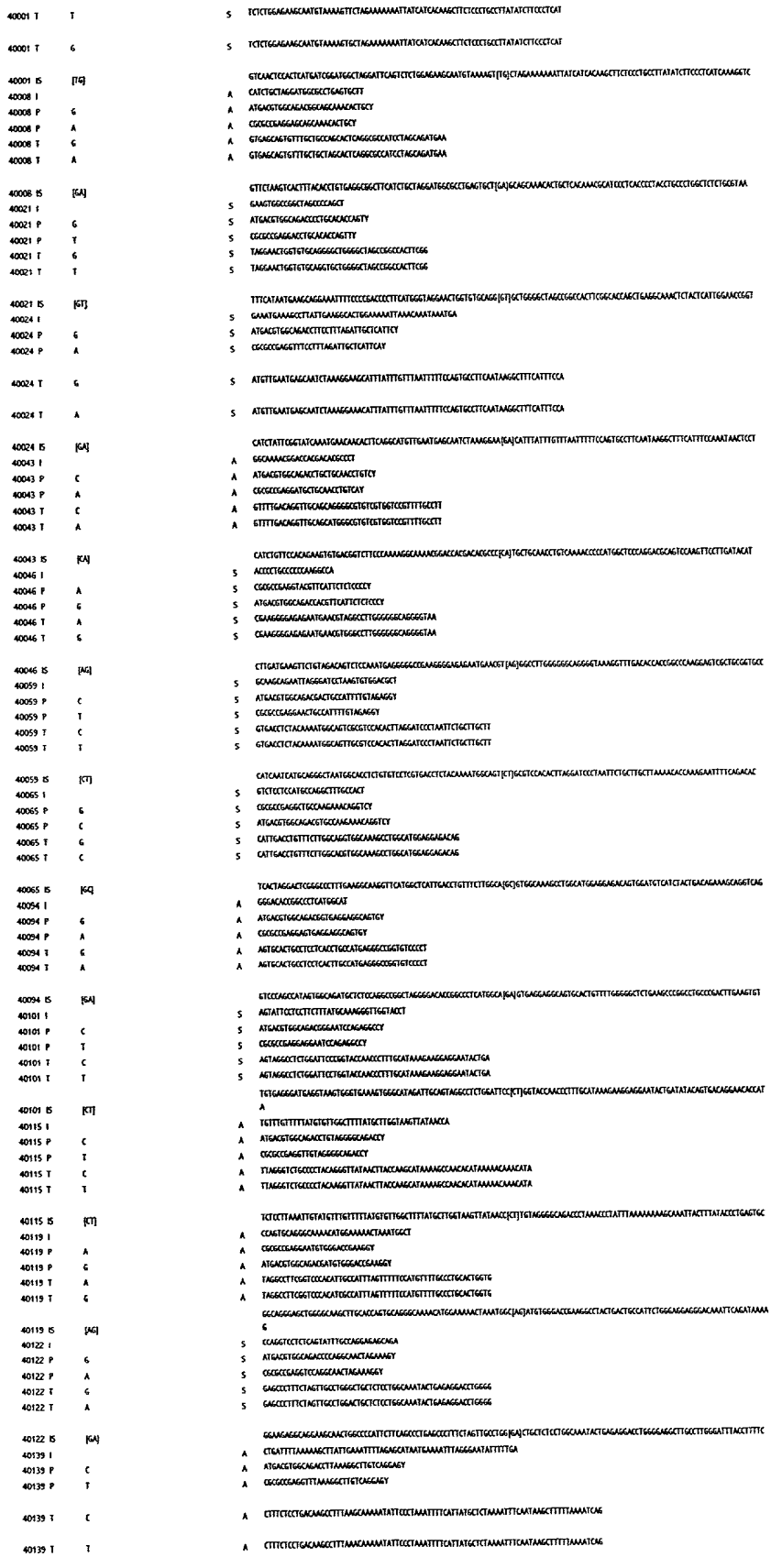


FIGURE 129F



Applicant: Applera Corporation
Inventors: Kevin V. Shianna et al.
Docket No.: 10527-0001-999

FIGURE 129F

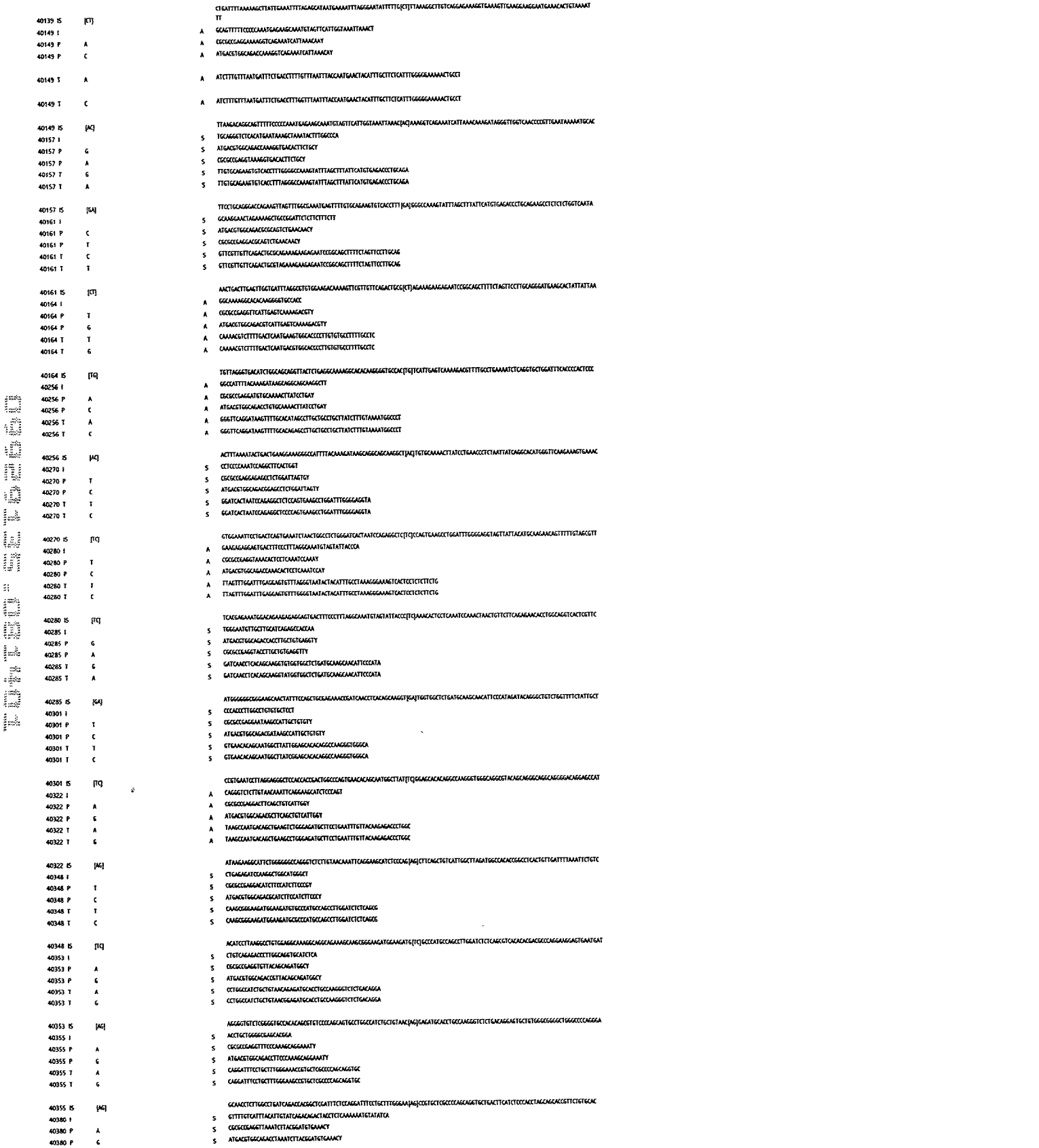

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40270 T C S GGATCACTAATCCAGAGGCTCCCAGTGAAGCCTGGATTTGGGGAGGTA
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FIGURE 129F

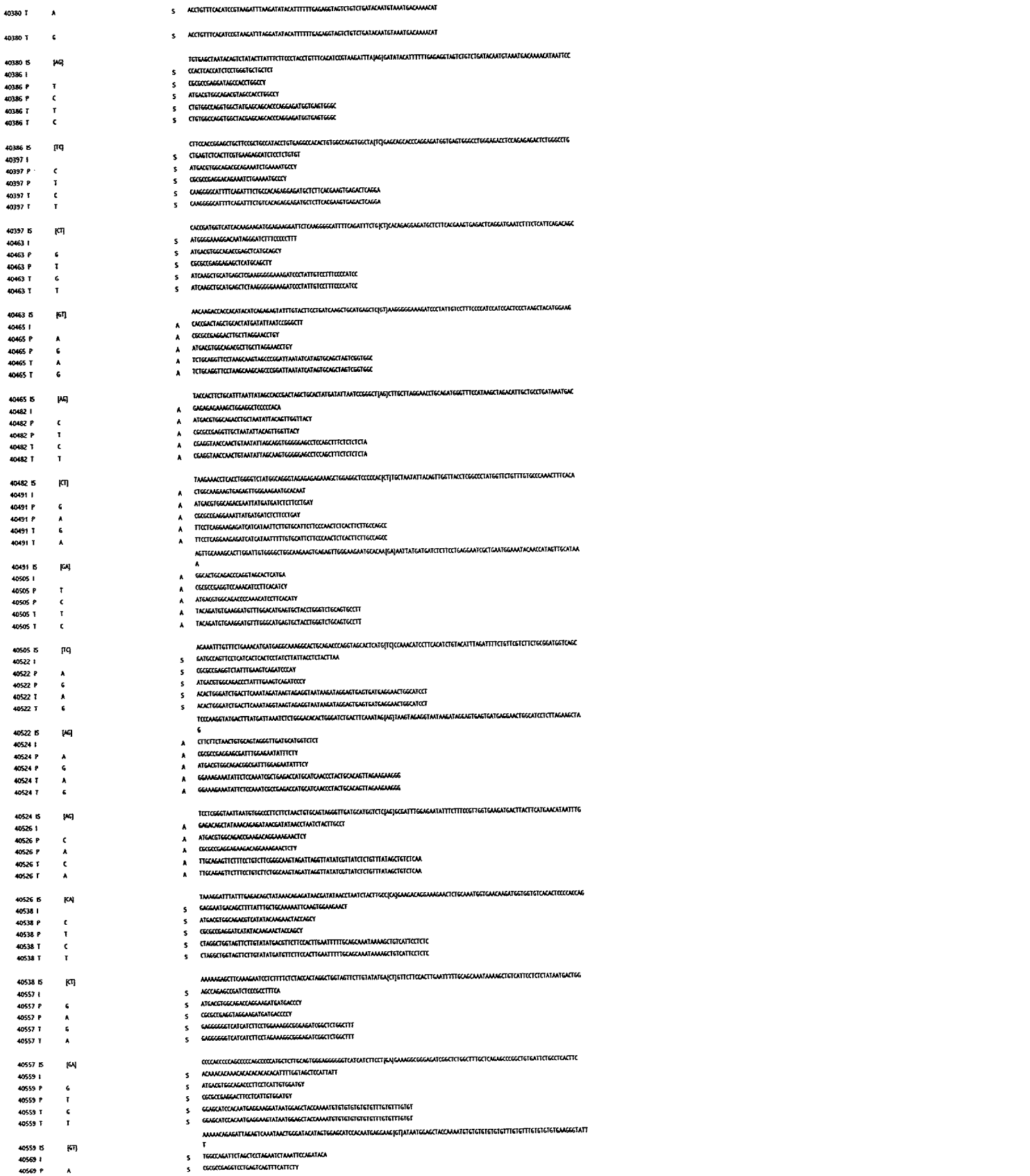


FIGURE 129F

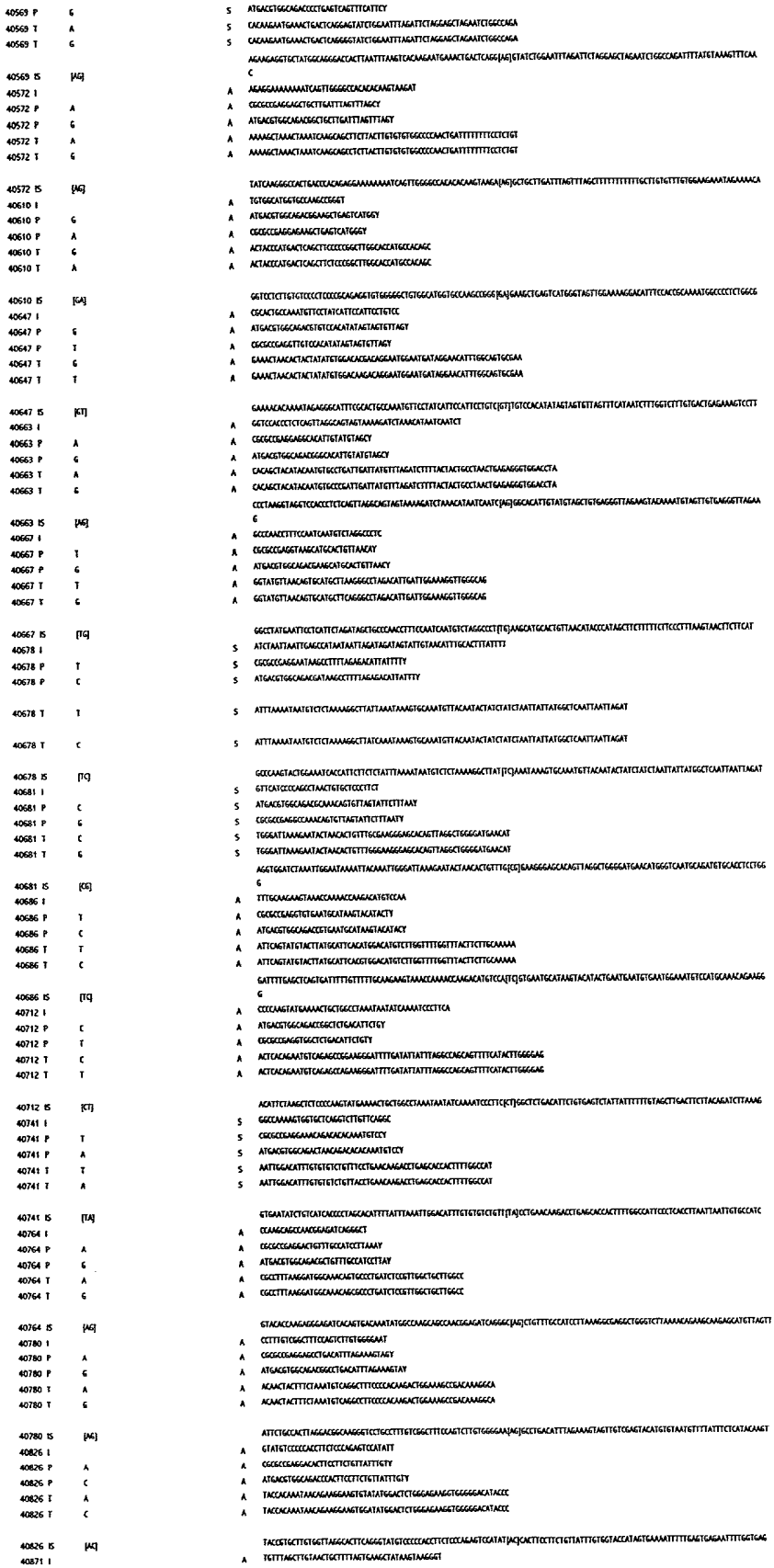

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40647 IS [GT]
40663 I A GGTCCACCCTCTCAGTTAGGCAGTAGTAAAAGATCTAAACATAATCAATC
40663 P A A CGCGCCGAGGAGGCACATTGTATGTAGCY
40663 P G A ATGACGTGGCAGACGGCCACATTGTATGTAGCY
40663 T A A CACAGCTACATACAATGTGCCTGATTGATTATGTTTAGATCTTTTACTACTGCCTAACTGAGAGGGTGGACCTA
40663 T G A CACAGCTACATACAATGTGCCCGATTGATTATGTTTAGATCTTTTACTACTGCCTAACTGAGAGGGTGGACCTA
CCCTAAGGTAGGTCCCACCCTCTCAGTTAGGCAGTAGTAAAAGATCTAAACATAATCAATC[AG]GGCACATTGTATGTAGCTGTGAGGGTTAGAAGTACAAAATGTAGTTGTGAGGGTTAGAA
40663 IS [AG] G
40667 I A GCCCAACCTTTCCAATCAATGTCTAGGCCCTC
40667 P T A CGCGCCGAGGTAAGCATGCACTGTTAACAY
40667 P G A ATGACGTGGCAGACGAAGCATGCACTGTTAACY
40667 T T A GGTATGTTAACAGTGCATGCTTAAGGGCCTAGACATTGATTGGAAAGGTTGGGCAG
40667 T G A GGTATGTTAACAGTGCATGCTTCAGGGCCTAGACATTGATTGGAAAGGTTGGGCAG
GGCCTATGAATTCCTCATTCTAGATAGCTGCCCAACCTTTCCAATCAATGTCTAGGCCCT[TC]AAGCATGCACTGTTAACATACCCATAGCTTCTTTTTCTTCCCTTTAAGTAACTTCTTCAT
40667 IS [TG]
40678 I S ATCTAATTAATTGAGCCATAATAATTAGATAGATAGTATTGTAACATTTGCACTTTATTTT
40678 P T S CGCGCCCAGGAATAAGCCTTTTAGAGACATTATTTTY
40678 P C S ATGACGTGGCAGACGATAAGCCTTTTAGAGACATTATTTY
40678 T T S ATTTAAAATAATGTCTCTAAAAGGCTTATTAAATAAAGTGCAAATGTTACAATACTATCTATCTAATTATTATGGCTCAATTAATTAGAT
40678 T C S ATTTAAAATAATGTCTCTAAAAGGCTTATCAAATAAAGTGCAAATGTTACAATACTATCTATCTAATTATTATGGCTCAATTAATTAGAT
GCCCAAGTACTGCAAAATCACCATTCTTCTCTATTTAAAATAATGTCTCTAAAAGGCTTAT[TC]AAATAAAGTGCAAATGTTACAATACTATCTATCTAATTATTATGGCTCAATTAATTAGAT
40678 IS [TC]
40681 I S GTTCATCCCCAGCCTAACTGTGCTCCCTTCT
40681 P C S ATGACGTGGCAGACGCAAACAGTGTTAGTATTCTTTAAY
40681 P G S CGCGCCGAGGCCAAACAGTGTTAGTATTCTTTAAY
40681 T C S TGGGATTAAAGAATACTAACACTGTTTGCGAAGGGAGCACAGTTAGGCTGGGGATGAACAT
40681 T G S TGGGATTAAAGAATACTAACACTGTTTGGGAAGGGAGCACAGTTAGGCTGGGGATGAACAT
AGGTGGATCTAAATTGGAATAAAATTACAAATTGGGATTAAAGAATACTAACACTGTTTG[CG]GAAGGGAGCACAGTTAGGCTGGGGATGAACATGGGTCAATGCAGATGTGCACCTCCTGG
40681 IS [CG] G
40686 I A TTTGCAAGAAGTAAACCAAAACCAAGACATGTCCAA
40686 P T A CGCGCCGAGGTGTGAATGCATAAGTACATACTY
40686 P C A ATGACGTGGCAGACCGTGAATGCATAAGTACATACT
40686 T T A ATTCAGTATGTACTTATGCATTCACGTGGACATGTCTTGGTTTTGGTTTACTTCTTGCAAAAA
40686 T C A ATTCAGTATGTACTTATGCATTCACGTGGACATGTCTTGGTTTTGGTTTACTTCTTGCAAAAA
GATTTTGAGCTCAGTGATTTTTGTTTTTGCAAGAAGTAAACCAAAACCAAGACATGTCCA[TC]GTGAATGCATAAGTACATACTGAATGAATGTGAATGGAAATGTCCATGCAAACAGAAGG
40686 IS [TC] G
40712 I A CCCCAAGTATGAAAACTGCTGGCCTAAATAATATCAAAATCCCTTCA
40712 P C A ATGACGTGGCAGACCGGCTCTGACATTCTGY
40712 P T A CGCGCCGAGGTGGCTCTGACATTCTGTY
40712 T C A ACTCACAGAATGTCAGAGCCGGAAGGGATTTTGATATTATTTAGGCCAGCAGTTTTCATACTTGGGGAG
40712 T T A ACTCACAGAATGTCAGAGCCAGAAGGGATTTTGATATTATTTAGGCCAGCAGTTTTCATACTTGGGGAG
ACATTCTAAAGCTCTCCCCAAGTATGAAAACTGCTGGCCTAAATAATATCAAAATCCCTTC[CT]GGCTCTGACATTCTGTGAGTCTATTATTTTTTGTAGCTTGACTTCTTACAGATCTTAAAG
40712 IS [CT]
40741 I S GGCCAAAAGTGGTGCTCAGGTCTTGTTCAGGC
40741 P T S CGCGCCGAGGAAACAGACACACAAATGTCCY
40741 P A S ATGACGTGGCAGACTAACAGACACACAAATGTCCY
40741 T T S AATTGGACATTTGTGTGTCTGTTTCCTGAACAAGACCTGAGCACCACTTTGGCCAT
40741 T A S AATTGGACATTTGTGTGTCTGTTACCTGAACAAGACCTGAGCACCACTTTGGCCAT
GTGAATATCTGTCATCACCCCTAGCACATTTTATTTAAATTGGACATTTGTGTGTCTGTT[TA]CCTGAACAAGACCTGAGCACCACTTTGGCCATTCCCTCACCTTAATTAATTGTGCCATC
40741 IS [TA]
40764 I A CCAAGCAGCCAACGGAGATCAGGGCT
40764 P A A CGCGCCGAGGAGACTGTTGCCATCCTAAAY
40764 P G A ATGACGTGGCAGACGCTGTTGCCATCCTTAY
40764 T A A CGCCTTTAAGGATGGCAAACAGTGCCCTGATCTCCGTTGGCTGCTTGGCC
40764 T G A CGCCTTTAAGGATGGCAAACAGCGCCCTGATCTCCGTTGGCTGCTTGGCC
GTACACCAAGAGGCAGATCACAGTGACAAATATGGCCAAGCAGCCAACGGAGATCAGGGC[AG]CTGTTTGCCATCCTTAAAGGCGAGGCTGGGTCTTAAAACAGAAGCAAGAGGATGTTAGTT
40764 IS [AG]
40780 I A CCTTTGTCGGCTTTCCAGTCTTGTGGGGAAT
40780 P A A CGCGCCGAGGAGCCTGACATTTAGAAAGTAGY
40780 P G A ATGACGTGGCAGACGGCCTGACATTTAGAAAGTAY
40780 T A A ACAACTACTTTCTAAATGTCAGGCTTTCCCCACAAGACTGGAAAGCCGACAAAGGCA
40780 T G A ACAACTACTTTCTAAATGTCAGGCCTTCCCCACAAGACTGGAAAGCCGACAAAGGCA
ATTCTGCCACTTAGGACGGCAAGGGTCCTGCCTTTGTCGGCTTTCCAGTCTTGTGGGGAA[AG]GCCTGACATTTAGAAAGTAGTTGTCGAGTACATGTGTAATGTTTTATTTCTCATACAAGT
40780 IS [AG]
40826 I A GTATGTCCCCCACTTCTCCCAGAGTCCATATT
40826 P A A CGCGCCGAGGACACTTCCTTCTGTTATTTGTY
40826 P C A ATGACGTGGCAGACCCACTTCCTTCTGTTATTTGTY
40826 T A A TACCACAAATAACAGAAGGAAGTGTATATGGACTCTGGGAGAAGGTGGGGGACATACCC
40826 T C A TACCACAAATAACAGAAGGAAGTGCATATGGACTCTGGGAGAAGGTGGGGGACATACCC
TACCGTGCTTGTGGTTAGGCACTTCAGGGTATGTCCCCCACCTTCTCCCAGAGTCCATATJACJCACTTCCTTCTGTTATTTGTGGTACCATAGTGAAAATTTTTGAGTGAGAATTTTGGTGAG
40871 I A TGTTTAGCTTGTAACTGCTTTTAGTGAAGCTATAAGTAAGGGT

FIGURE 129F

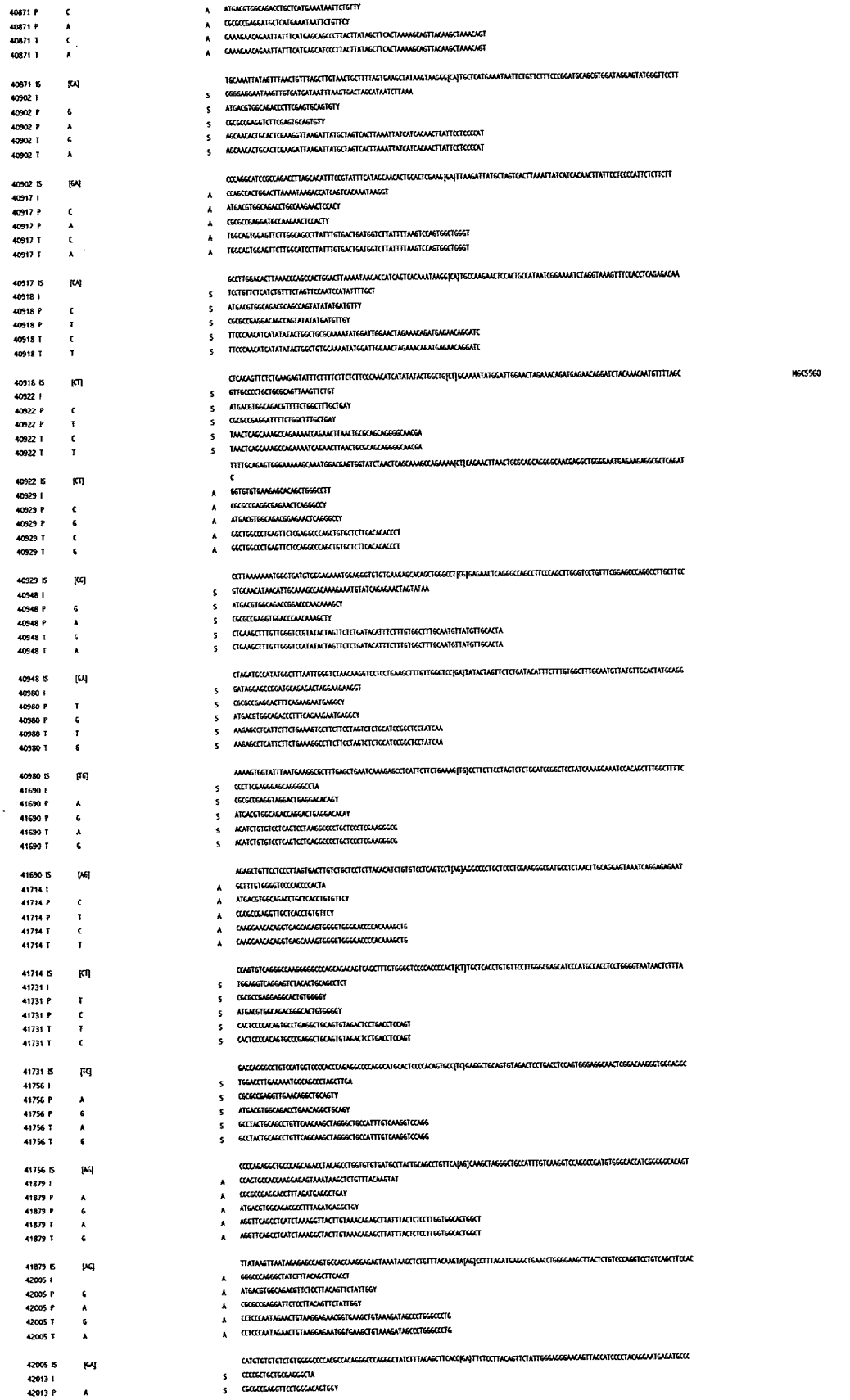


FIGURE 129F

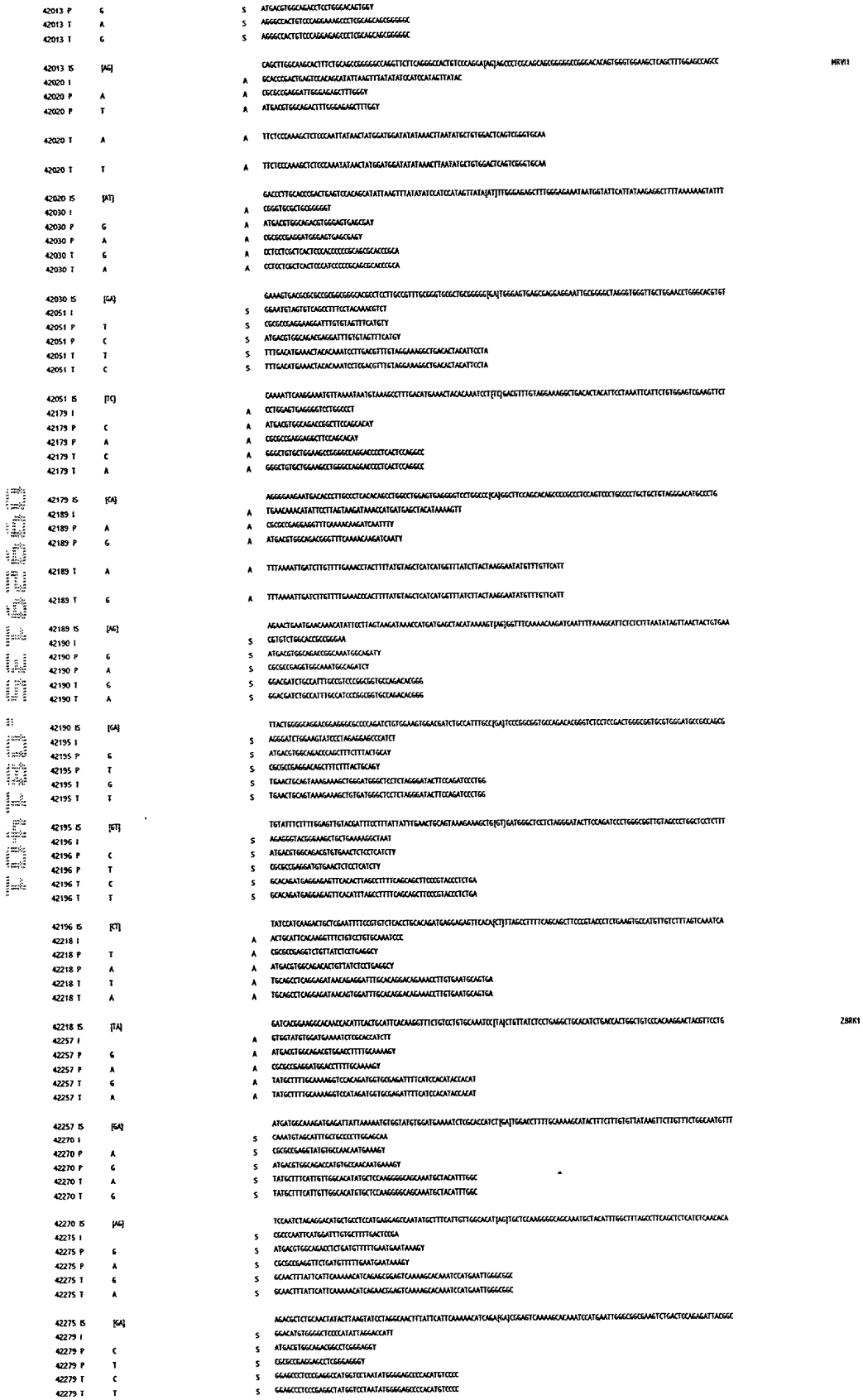


FIGURE 129F

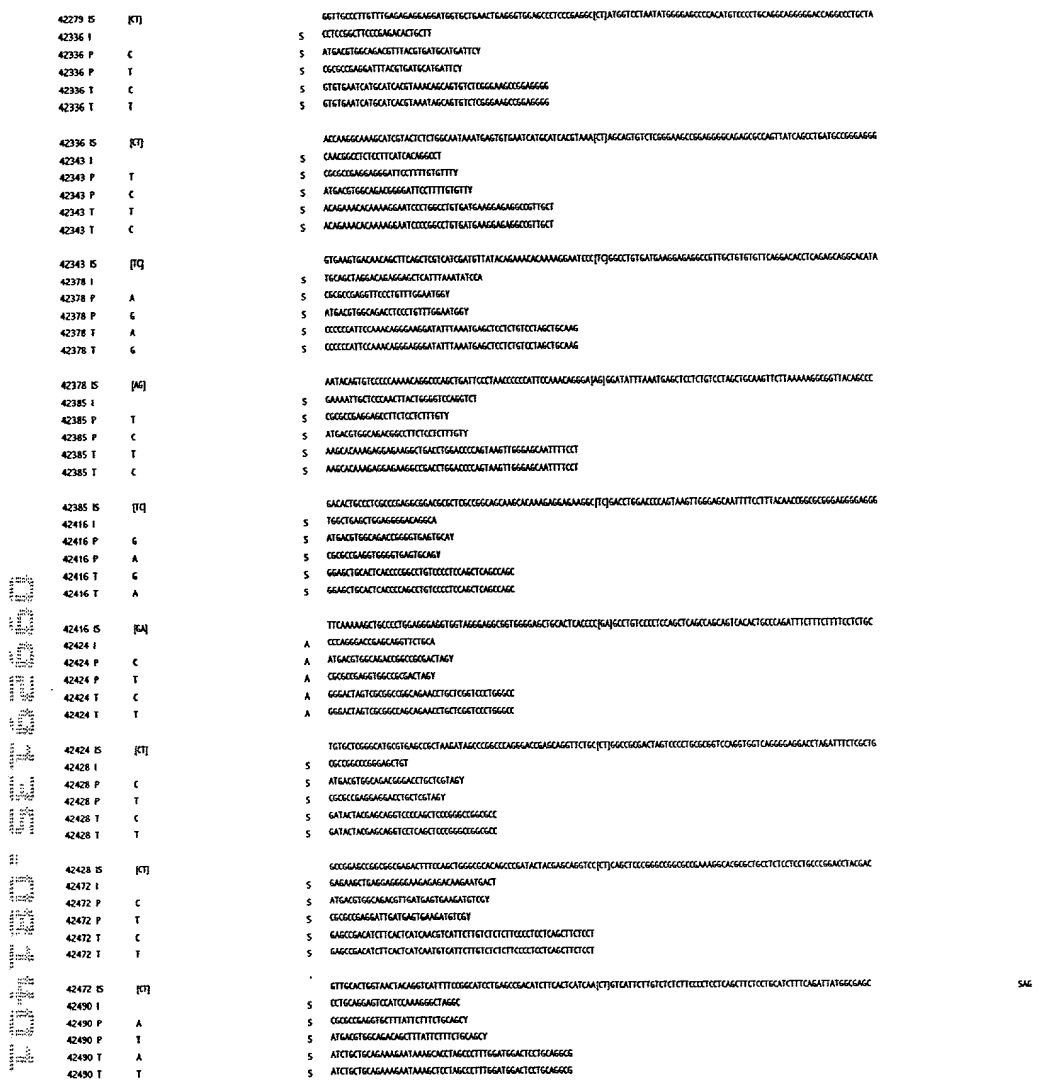


FIGURE 129F

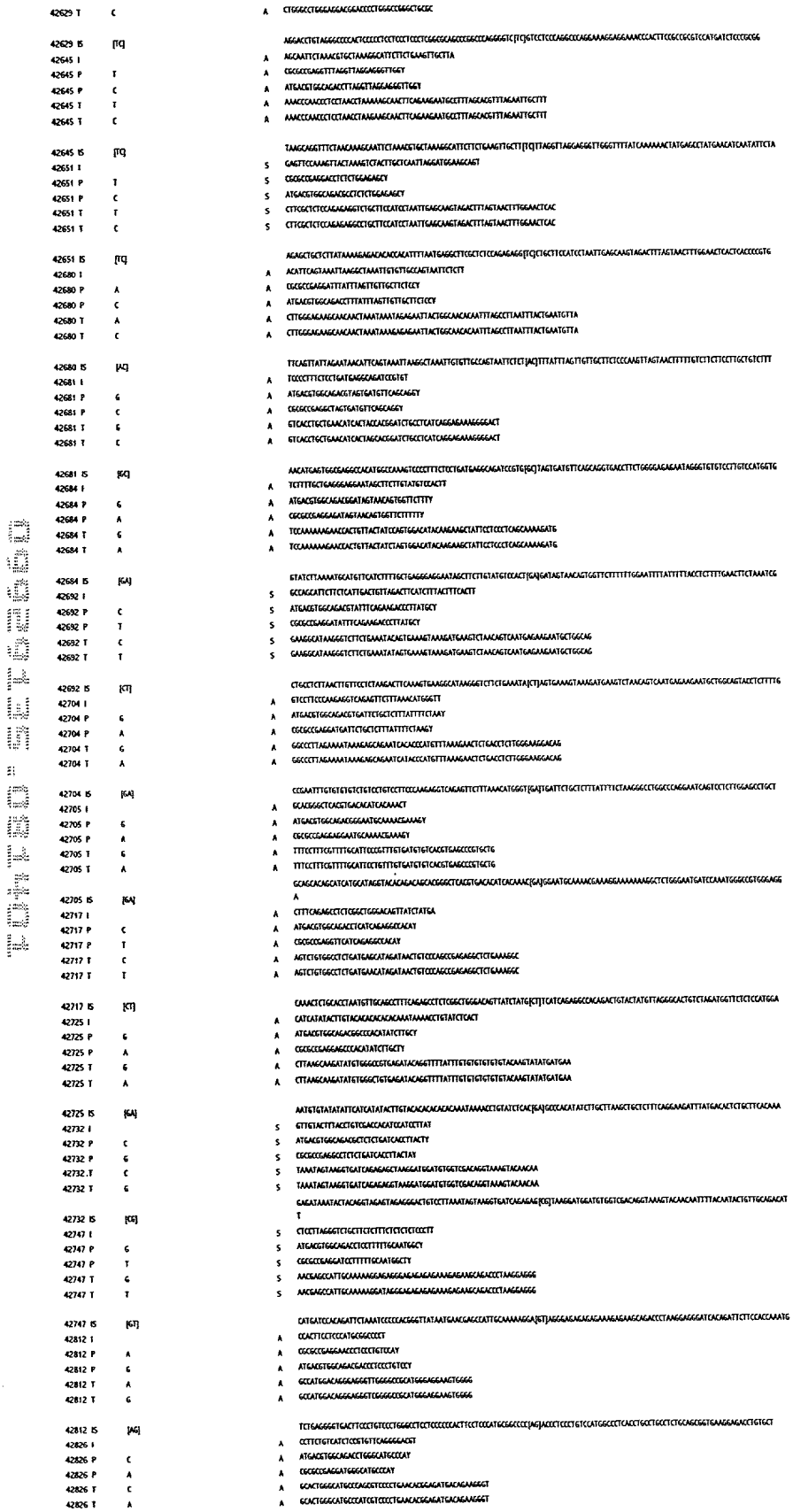


FIGURE 129F

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42826 IS  [CA]   GGGCCGCAGTGGAGGTTTTCTCAACATGCACCCTTCTGTCATCTCCGTGTTCAGGGGACG[CA]TGGGCATGCCCAGTGCTGCCCTGAGGAAAGCCCTCCTCATCACAAGCCAGTTACCTTT
42842 I          S  TCTCCAACAATGTATGTAGGTTATACCTTAGGGACAGAGTTTCTGCT
42842 P  T       S  CGCGCCGAGGATTACTGGAAGATAAATAGACTTCCY
42842 P  C       S  ATGACGTGGCAGACGTTACTGGAAGATAAATAGACTTCY

42842 T  T       S  AGAAGGAAGTCTATTTATCTTCCAGTAATGCAGAAACTCTGTCCCTAAGGTATAACCTACATACATTGTTGGAGACA

42842 T  C       S  AGAAGGAAGTCTATTTATCTTCCAGTAACGCAGAAACTCTGTCCCTAAGGTATAACCTACATACATTGTTGGAGACA

42842 IS  [TC]   GAAGAGCAAAATTGCAGTTATTACCTGAGAACAGAAGGAAGTCTATTTATCTTCCAGTAA[TC]GCAGAAACTCTGTCCCTAAGGTATAACCTACATACATTGTTGGAGACAGGAAGGAGGGTG
42859 I          S  TCCCCAGCTGGGCCCTGCCC
42859 P  A       S  CGCGCCGAGGTGCGAGATGACCCTCY
42859 P  C       S  ATGACGTGGCAGACGGCGAGATGACCCTCY
42859 T  A       S  ATCCGAGGGTCATCTCGCAGGCAGGGCCCAGCTGGGGAAG
42859 T  C       S  ATCCGAGGGTCATCTCGCCGGCAGGGCCCAGCTGGGGAAG

42859 IS  [AC]   AGCCATCTCAGGCCAGTGATGTGTCAGAAGGTGCCCCCTGAGATCCGAGGGTCATCTCGC[AC]GGCAGGGCCCAGCTGGGGAAGCTGGGGGTCCTACCTCTTGACACTGCCCCCACTTACACA
42868 I          S  AGAGGCAGCTGGGCCCTGACCTCA
42868 P  A       S  CGCGCCGAGGTCCACCTATTCCTCTTACCY
42868 P  G       S  ATGACGTGGCAGACCCCACCTATTCCTCTTACCY
42868 T  A       S  CACAGGTAAGAGGAATAGGTGGAGAGGTCAGGGCCCAGCTGCCTCTCC
42868 T  G       S  CACAGGTAAGAGGAATAGGTGGGGAAGGTCAGGGCCCAGCTGCCTCTCC

42868 IS  [AG]   AACGTCGCCAACAGCTGGCCAGGAGCCGGGACCCCACCCACAGGTAAGAGGAATAGGTGG[AG]GAGGTCAGGGCCCAGCTGCCTCTCCTCGGCCCAGCACCCCTGTCCCACAGGCTTCCCTGC
42870 I          S  GGCCTCCCCCCAGGGCCGT
42870 P  T       S  CGCGCCGAGGACTGCCCCGTGTGY
42870 P  C       S  ATGACGTGGCAGACGCTGCCCCGTGTY
42870 T  T       S  CATCCACACGGGGCAGTCGGCCCTCGGGGGAGGCCTT
42870 T  C       S  CATCCACACGGGGCAGCCGGCCCTCGGGGGAGGCCTT

42870 IS  [TC]   ACGCCTGCATGCAGCAGGCGTGTGTTCCAGTGGATGAGTTTTATCATCCACACGGGGCAG[TC]CGGCCCTCGGGGGAGGCCTTGCCCACCTTGGTGAGGCTCCTGTGGCCCTCCCTCCCCCT  CACNA1B
42885 I          S  GGCGGTGCCTGGAGAGTCCCCT
42885 P  T       S  CGCGCCGAGGATTACGGCTGGCTCTTY
42885 P  C       S  ATGACGTGGCAGACGTTACGGCTGGCTCTY
42885 T  T       S  AAGCAAGAGCCAGCCGTAATGGGGACTCTCCAGGCACCGCCTG
42885 T  C       S  AAGCAAGAGCCAGCCGTAACGGGGACTCTCCAGGCACCGCCTG

42885 IS  [TC]   TCCCCCTCTCTTGCTCCCCTTCAGGCCCTGGGCCCCGCCTCAAGGAAGAGCCAGCCGTAA[TC]GGGGACTCTCCAGGCACCGCGCTGCCCCCAGCGTGGGGGTGGCCACTCCTGGGCCCCAGAA
42940 I          S  TCATGGAACATCTCAGGGTAAAGCAGGACTCAACAATAAATGAATT
42940 P  C       S  ATGACGTGGCAGACGTATCTGTTTCAGTGATAGTCATY
42940 P  G       S  CGCGCCGAGGCTATCTGTTTCAGTGATAGTCATY
42940 T  C       S  AATCATGACTATCACTGAAACAGATACATTCATTTATTGTTGAGTCCTGCTTTACCCTGAGATGTTCCATGAAC
42940 T  G       S  AATCATGACTATCACTGAAACAGATAGATTCATTTATTGTTGAGTCCTGCTTTACCCTGAGATGTTCCATGAAC

42940 IS  [CG]   TGTTCATTTTTTACGTTTAGAAGACCATACTTTAAATCATGACTATCACTGAAACAGATA[CG]ATTCATTTATTGTTGAGTCCTGCTTTACCCTGAGATGTTCCATGAACACTGAGAATACAT
42962 I          S  GGAGGGGGCTGCTAGGAGATACCCCA
42962 P  G       S  ATGACGTGGCAGACCCAAGACATAGTCCCAGY
42962 P  A       S  CGCGCCGAGGTCAAGACATAGTCCCAGCY
42962 T  G       S  ACCAGCTGGGACTATGTCTTGGGGGGTATCTCCTAGCAGCCCCCTCCCT
42962 T  A       S  ACCAGCTGGGACTATGTCTTGAGGGGTATCTCCTAGCAGCCCCCTCCCT

42962 IS  [GA]   TTGCAGACTCAGTGCTCTCATCACATGCACAAATTCCCTACCAGCTGGGACTATGTCTTG[GA]GGGGTATCTCCTAGCAGCCCCCTCCTCCCACCGCCCCACTTGAGTGTTTTTACAGCTCA
42968 I          A  CACTGGCGGCAGGTTACGTGACCGT
42968 P  G       A  ATGACGTGGCAGACGCCTGCTGGAGTAAY
42968 P  C       A  CGCGCCGAGGCCCTGCTGGAGTAAGY
42968 T  G       A  GTCCCTTACTCCAGCAGGGCCGGTCAGTAACCTGCCGCCAGTGAC
42968 T  C       A  GTCCCTTACTCCAGCAGGGCGGTCAGTAACCTGCCGCCAGTGAC

42968 IS  [GC]   GCAGGATGGGGTGCCGGTGGGGAGAGGAGGCGAGGTCACTGGCGGCAGGTTACGTGACCG[GC]CCCTGCTGGAGTAAGGGACTGGGCACCTGGAGGTGTGTGCCAGGTCGTTCTGAAGCAGGT
42971 I          A  CTGCAGCTAAGTGTGGCTGTATAAATAGTAAGATTAGAAAAA
42971 P  C       A  ATGACGTGGCAGACCCCAAGTCAATAAATCAGAGCY
42971 P  T       A  CGCGCCGAGGTCCAAGTCAATAAATCAGAGCY
42971 T  C       A  TCTTGCTCTGATTTATTGACTTGGGTTTTCTAATCTTACTATTTATACAGCCACACCTAGCTGCAGAC
42971 T  T       A  TCTTGCTCTGATTTATTGACTTGGATTTTCTAATCTTACTATTTATACAGCCACACCTAGCTGCAGAC

42971 IS  [CT]   TGAATTTTGTCTAGATTGTCTGCAGCTAGGTGTGGCTGTATAAATAGTAAGATTAGAAAA[CT]CCAAGTCAATAAATCAGAGCAAGACCCTGTAGGAGTTTTTCTCTGGGCACTGGAAAGAAG
42993 I          A  AGGAAGCCTCCAGAACCCTCCCGGT
42993 P  G       A  ATGACGTGGCAGACGGAACCCTCCTGCTGY
42993 P  A       A  CGCGCCGAGGAGAACCCTCCTGCTGY
42993 T  G       A  AGCGCAGCAGGAGGGTTCCCCCGGACGGTTCTGGAGGCTTCCTTA
42993 T  A       A  AGCGCAGCAGGAGGGTTCTCCCGGACGGTTCTGGAGGCTTCCTTA

42993 IS  [GA]   GCAGTCCTAGATTGAGGAATTAGTGAAATATGTCTAAGGAAGCCTCCAGAACCGTCCGGG[GA]GAACCCTCCTGCTGCGCTCTCACCAGCGTCCTTCCCGCAGGTGAGCATCTGCCTGGAGT
43001 I          A  CCCCTCACTCTGGGGCGTTCCTGGT
43001 P  G       A  ATGACGTGGCAGACGTTGTTCCCGGGACTY
43001 P  C       A  CGCGCCGAGGCTTGTTCCCGGGACTY
43001 T  G       A  ACAGAGTCCCGGGAACAACCCAGGAAGCGCCCAGAGTGAGGGGCG
43001 T  C       A  ACAGAGTCCCGGGAACAAGCCAGGAAGCCCCAGAGTGAGGGGCG

43001 IS  [GC]   GATGCCTGGGCCCTCCCCTCCCTTGCTGCAATGTCGCCCCTCACTCTGGGGCGTTCCTGGG[GC]TTGTTCCCGGGACTCTGTAAATTGGGTGAAACCTCGGTGGTGGCGCCTCACTGAGCCAGT
43004 I          A  CCGGGGAAGACGTTCTCCTTACACATGCCT
43004 P  A       A  CGCGCCGAGGAAAGTCAGTGATCTTGATGTGY
43004 P  G       A  ATGACGTGGCAGACGAAGTCAGTGATCTTGATGTY
43004 T  A       A  GGGACACATCAAGATCACTGACTTTGGCATGTGTAAGGAGAAACGTCTTCCCCGGGA
43004 T  G       A  GGGACACATCAAGATCACTGACTTCGGCATGTGTAAGGAGAAACGTCTTCCCCGGGA

43004 IS  [AG]   CGGGGTCCCGCAGAAGGTGCGGGGTTGTCGTCCCGGGGAAGACGTTCTCCTTACACATGCC[AG]AAGTCAGTGATCTTGATGTGTCCCTCAGCATCCAGCATCACATTGTCCAGCTTCAGGTCC  PRKCG
43053 I          A  CCAGAGGCCTCACTCGTGGGCAGGT
43053 P  A       A  CGCGCCGAGGAAGCAAGGGCGGAY
43053 P  G       A  ATGACGTGGCAGACGAGCAAGGGCGGAY
43053 T  A       A  GGGGTCGGCCCTTGCTTCCTGCCCACGAGTCAGGCCTCTGGTT
43053 T  G       A  GGGGTCCGCCCTTGCTCCCTGCCCACGAGTCAGGCCTCTGGTT

43053 IS  [AG]   TGCTCGGGGCTGCGATGCCCCTTAGGTTGCGGGCAACCAGAGGCCTCACTCGTGGGCAGG[AG]AGCAAGGGCGGACCCCAGAGATGACTGATTGTGGGGGTGGGGACCGTCTGCTCCTCCTA
43078 I          S  GGGGCTTAAGGGGCTGGGCAGCT
43078 P  G       S  ATGACGTGGCAGACCCTGGGAAGTGGGGY
43078 P  T       S  CGCGCCGAGGACTGGGAAGTGGGGY
43078 T  G       S  CAGACCCCACTTCCCAGGGCTGCCCAGCCCCTTAAGCCCCTT
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FIGURE 129F

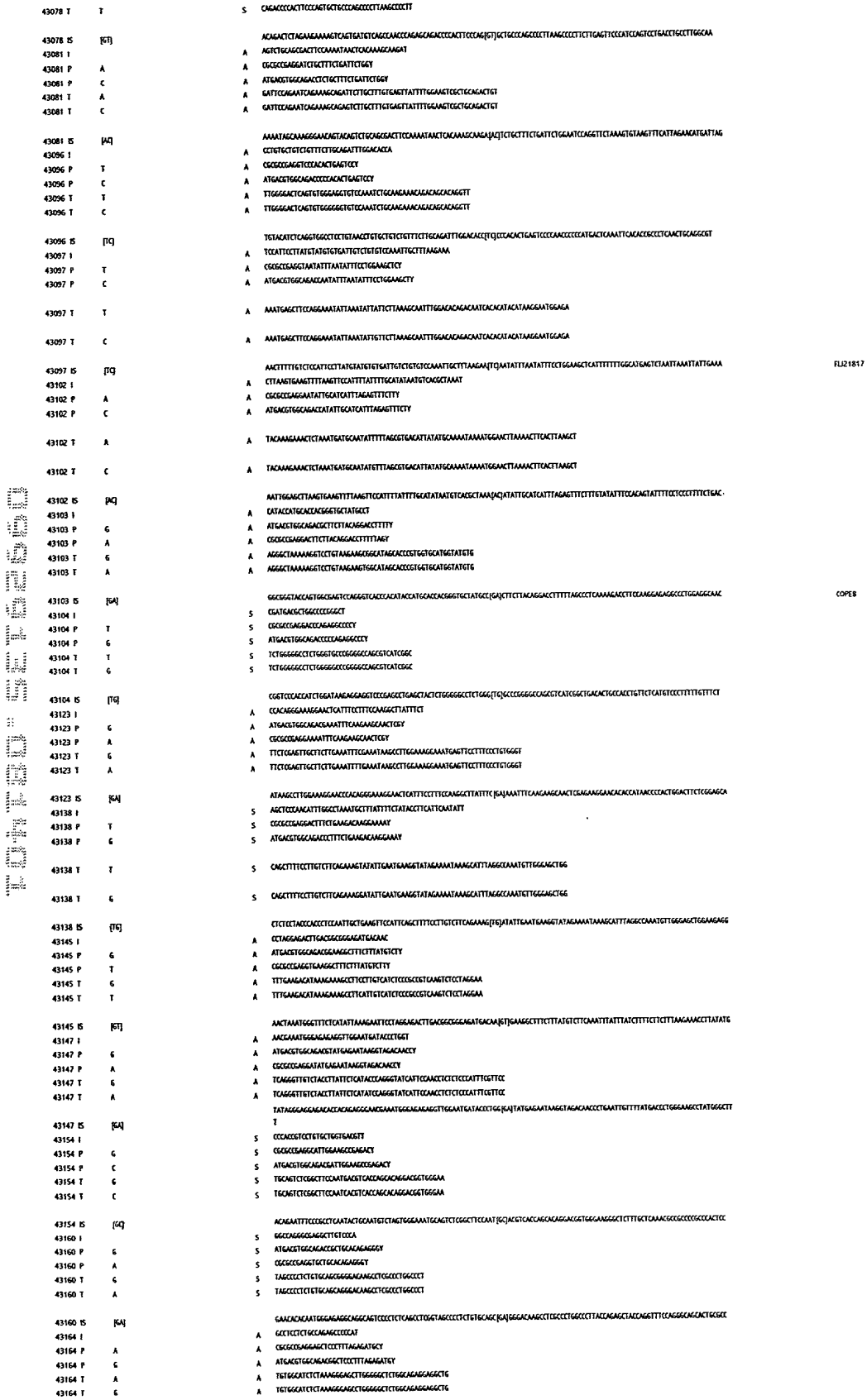

43078 T T S CAGACCCCACTTCCCAGTGCTGCCCAGCCCCTTAAGCCCCTT
43078 IS [GT] ACAGACTCTAGAAGAAAAGTCAGTGATGTCAGCCAACCCAGAGCAGACCCCACTTCCCAG[GT]GCTGCCCAGCCCCTTAAGCCCCTTCTTGAGTTCCCATCAGTCCTGACCTGCCTTGGCAA
43081 I A AGTCTGCAGCCACTTCCAAAATAACTCACAAAGCAAGAT
43081 P A A CGCGCCGAGGATCTGCTTTCTGATTCTGGY
43081 P C A ATGAGTGGCAGACCTCTGCTTTCTGATTCTGGY
43081 T A A GATTCCAGAATCAGAAAGCAGATTCTGCTTTGTGAGTTATTTTGGAAGTCGCTGCAGACTGT
43081 T C A GATTCCAGAATCAGAAAGCAGAGTCTTGCTTTGTGAGTTATTTTGGAAGTCGCTGCAGACTGT
43081 IS [AC] AAAATAGCAAAGGGAACAGTACAGTCTGCAGCGACTTCCAAAATAACTCACAAAGCAAGA[AC]TCTGCTTTCTGATTCTGGAATCCAGGTTCTAAAGTGTAAGTTTCATTAGAACATGATTAG
43096 I A CCTGTGCTGTCTGTTTCTTGCAGATTTGGACACCA
43096 P T A CGCGCCGAGGTCCCCACACTGAGTCCY
43096 P C A ATGACGTGGCAGACCCCCACACTGAGTCCY
43096 T T A TTGGGGACTCAGTGTGGGGAGGTGTCCAAATCTGCAAGAAACAGACAGCACAGGTT
43096 T C A TTGGGGACTCAGTGTGGGGGGTGTCCAAATCTGCAAGAAACAGACAGCACAGGTT
43096 IS [TC] TGTACATCTCAGGTGGCCTCCTGTAACCTGTGCTGTCTGTTTCTTGCAGATTTGGACACCTC[TC]CCCACACTGAGTCCCCAACCCCCCATGACTCAAATTCACACCGCCCTCAACTGCAGCGCT
43097 I A TCCATTCCTTATGTATGTGTGATTGTCTGTGTCCAAATTGCTTTAAGAAA
43097 P T A CGGCCCGAGGTAATATTTAATATTTCCTGGAAGCTCY
43097 P C A ATGACGTGGCAGACCAATATTTAATATTTCCTGGAAGCTCY
43097 T T A AAATGAGCTTCCAGGAAATATTAAATATTATTCTTAAAGCAATTTGGACACAGACAATCACACATACATAAGGAATGGAGA
43097 T C A AAATGAGCTTCCAGGAAATATTAAATATTGTTCTTAAAGCAATTTGGACACAGACAATCACACATACATAAGGAATGGAGA
43097 IS [TC] AACTTTTTGTCTCCATTCCTTATGTATGTGTGATTGTCTGTGTCCAAATTGCTTTAAGAA[TC]AATATTTAATATTTCCTGGAAGCTCATTTTTTTGGCATGAGTCTAATTAAATTATTGAAA FLJ21817
43102 I A CTTAAGTGAAGTTTTAAGTTCCATTTTATTTTGCATATAATGTCAGGCTAAAT
43102 P A A CGCGCCGAGGAATATTGCATCATTTAGAGTTTCTTY
43102 P C A ATGACGTGGCAGACATATTGCATCATTTAGAGTTTCTY
43102 T A A TACAAAGAAACTCTAAATGATGCAATATTTTTAGCGTGACATTATATGCAAAATAAAATGGAACTTAAAACTTCACTTAAGCT
43102 T C A TACAAAGAAACTCTAAATGATGCAATATGTTTAGCGTGACATTATATGCAAAATAAAATGGAACTTAAAACTTCACTTAAGCT
43102 IS [AC] AATTGGAGCTTAAGTGAAGTTTTAAGTTCCATTTTATTTTGCATATAATGTCAGGCTAAA[AC]ATATTGCATCATTTAGAGTTTCTTTGTATATTTCCACAGTATTTTCCTCCCTTTTCTGAC
43103 I A CATACCATGCACCACGGGTGCTATGCCT
43103 P G A ATGACGTGGCAGACGCTTCTTACAGGACCTTTTY
43103 P A A CGCGCCGAGGACTTCTTACAGGACCTTTTTAGY
43103 T G A AGGGCTAAAAAGTCCTGTAAGAAGCGGCATAGCACCCGTGGTGCATGGTATGTG
43103 T A A AGGGCTAAAAAGTCCTGTAAGAAGTGGCATAGCACCCGTGGTGCATGGTATGTG
43103 IS [GA] GGCGGGTACCAGTGGCGAGTCCAGGGTCACCCACATACCATGCACCACGGGTGCTATGCC[GA]CTTCTTACAGGACCTTTTTAGCCCTCAAAAGACCTTCCAAGGAGAGGCCCTGGAGGCAAC COPE8
43104 I S CGATGACGCTGGCCCCCGGCT
43104 P T S CGCGCCCAGGACCCAGAGGCCCCY
43104 P G S ATGACGTGGCAGACCCCCAGAGGCCCY
43104 T T S TCTGGGGGCCTCTGGGTGCCCGGGGCCAGCGTCATCGGC
43104 T G S TCTGGGGGCCTCTGGGGGCCCGGGGCCAGCGTCATCGGC
43104 IS [TG] CGGTCCCACCATCTGGATAAGAGGAGGTCCCGAGCCTGAGCTACTCTGGGGGCCTCTGGG[TG]GCCCGGGGCCAGCGTCATCGGCTGACACTGCCACCTGTTCTCATGTCCCTTTTGTTTCT
43123 I A CCACAGGGAAAGGAACTCATTTCCTTTCCAAGGCTTATTTCT
43123 P G A ATGACGTGGCAGACGAAATTTCAAGAAGCAACTCGY
43123 P A A CGCGCCGAGGAAAATTTCAAGAAGCAACTCGY
43123 T G A TTCTCGAGTTGCTTCTTGAAATTTCGAAATAAGCCTTGGAAAGGAAATGAGTTCCTTTCCCTGTGGGT
43123 T A A TTCTCGAGTTGCTTCTTGAAATTTTGAAATAAGCCTTGGAAAGGAAATGAGTTCCTTTCCCTGTGGGT
43123 IS [GA] ATAAGCCTTGGAAAGGAACCCACAGGGAAAGGAAACTCATTTCCTTTCCAAGGCTTATTTC[GA]AAATTTCAAGAAGCAACTCGAGAAGGAACACACCATAACCCCACTGGACTTCTCGGAGCA
43138 I S AGCTCCCAACATTTGGCCTAAATGCTTTATTTTCTATACCTTCATTCAATATT
43138 P T S CGCGCCGAGGACTTTCTGAAGACAAGGAAAAY
43138 P G S ATGACGTGGCAGACCCTTTCTGAAGACAAGGAAAY
43138 T T S CAGCTTTTCCTTGTCTTCAGAAAGTATATTGAATGAAGGTATAGAAAATAAAGCATTTAGGCCAAATGTTGGGAGCTGG
43138 T G S CAGCTTTTCCTTGTCTTCAGAAAGGATATTGAATGAAGGTATAGAAAATAAAGCATTTAGGCCAAATGTTGGGAGCTGG
43138 IS [TG] CTCTCCTACCACCCTCCAATTGCTGAAGTTCCATTCAGCTTTTCCTTGTCTTCAGAAAG[TG]ATATTGAATGAAGGTATAGAAAATAAAGCATTTAGGCCAAATGTTGGGAGCTGGAAGAGG
43145 I A CCTAGGAGACTTGACGGCGGGAGATGACAAC
43145 P G A ATGACGTGGCAGACGGAAGGCTTTCTTTATGTCTY
43145 P T A CGCGCCGAGGTGAAGCTTTCTTTATGTCTTY
43145 T G A TTTGAAGACATAAAGAAAGCCTTCCTTGTCATCTCCCGCCGTCAAGTCTCCTAGGAA
43145 T T A TTTGAAGACATAAAGAAAGCCTTCATTGTCATCTCCCGCCGTCAAGTCTCCTAGGAA
43145 IS [GT] AACTAAATGGGTTTCTCATATTAAAGAATTCCTAGGAGACTTGACGGCGGGAGATGACAA[GT]GAAGGCTTTCTTTATGTCTTCAAATTTATTTATCTTTCTTCTTTAAGAAACCTTATATG
43147 I A AACGAAATGGGAGAGAGGTTGGAATGATACCCTGGT
43147 P G A ATGACGTGGCAGACGTATGAGAATAAGGTAGACAACCY
43147 P A A CGCGCCGAGGATATGAGAATAAGGTAGACAACCY
43147 T G A TCAGGGTTGTCTACCTTATTCTCATACCCAGGGTATCATTCCAACCTCTCTCCCATTTCGTTCC
43147 T A A TCAGGGTTGTCTACCTTATTCTCATATCCAGGGTATCATTCCAACCTCTCTCCCATTTCGTTCC
43147 IS [GA] TATAGGGAGGAGACACCACAGAGGCAACGAAATGGGAGAGAGGTTGGAATGATACCCTGG[GA]TATGAGAATAAGGTAGACAACCCTGAATTGTTTTATGACCCTGGGAAGCCTATGGGCTT T
43154 I S CCCACCGTCCTGTGCTGGTGAGGTT
43154 P G S CGCGCCGAGGCATTGGAAGCCGAGACT
43154 P C S ATGACGTGGCAGACGATTGGAAGCCGAGACY
43154 T G S TGCAGTCTCGGCTTCCAATCAGTCACCAGCACAGGACGGTGGGAA
43154 T C S TGCAGTCTCGGCTTCCAATCAGTCACCAGCACAGGACGGTGGGAA
43154 IS [GC] ACAGAATTTCCCGCCTGAATACTGCAATGTCTAGTGGGAAATGCAGTCTCGGCTTCCAAT[GC]ACGTCACCAGCACAGGACGGTGGGAAGGGCTCTTTGCTCAAACGCCGCCCCCGCCCACTCC
43160 I S GGCCAGGGCCAGGCTTGTCCCA
43160 P G S ATGACGTGGCAGACCGCTGCACAGAGGGY
43160 P A S CGCGCCGAGGTGCTGCACAGAGGGY
43160 T G S TAGCCCCTCTGTGCAGCGGGGACAAGCCTCGCCCTGGCCCT
43160 T A S TAGCCCCTCTGTGCAGCAGGGACAAGCCTCGCCCTGGCCCT
43160 IS [GA] GAACACACAATGGGAGAGGCAGGCAGTCCCCTCTCAGCCTGGTAGCCCCTCTGTGCAGC[GA]GGGACAAGCCTCGCCCTGGCCCTTACCAGAGCTACCAGGTTTCCAGGGCAGCACTGCGCC
43164 I A GCCTCCTCTGCCAGAGCCCCCAT
43164 P A A CGCGCCGAGGAGCTCCCTTTAGAGATGCY
43164 P G A ATGACGTGGCAGACGGCTCCCTTTAGAGATGY
43164 T A A TGTGGCATCTCTAAAGGGAGCTTGGGGGCTCTGGCAGAGGAGGCTG
43164 T G A TGTGGCATCTCTAAAGGGAGCCTGGGGGCTCTGGCAGAGGAGGCTG

FIGURE 129F

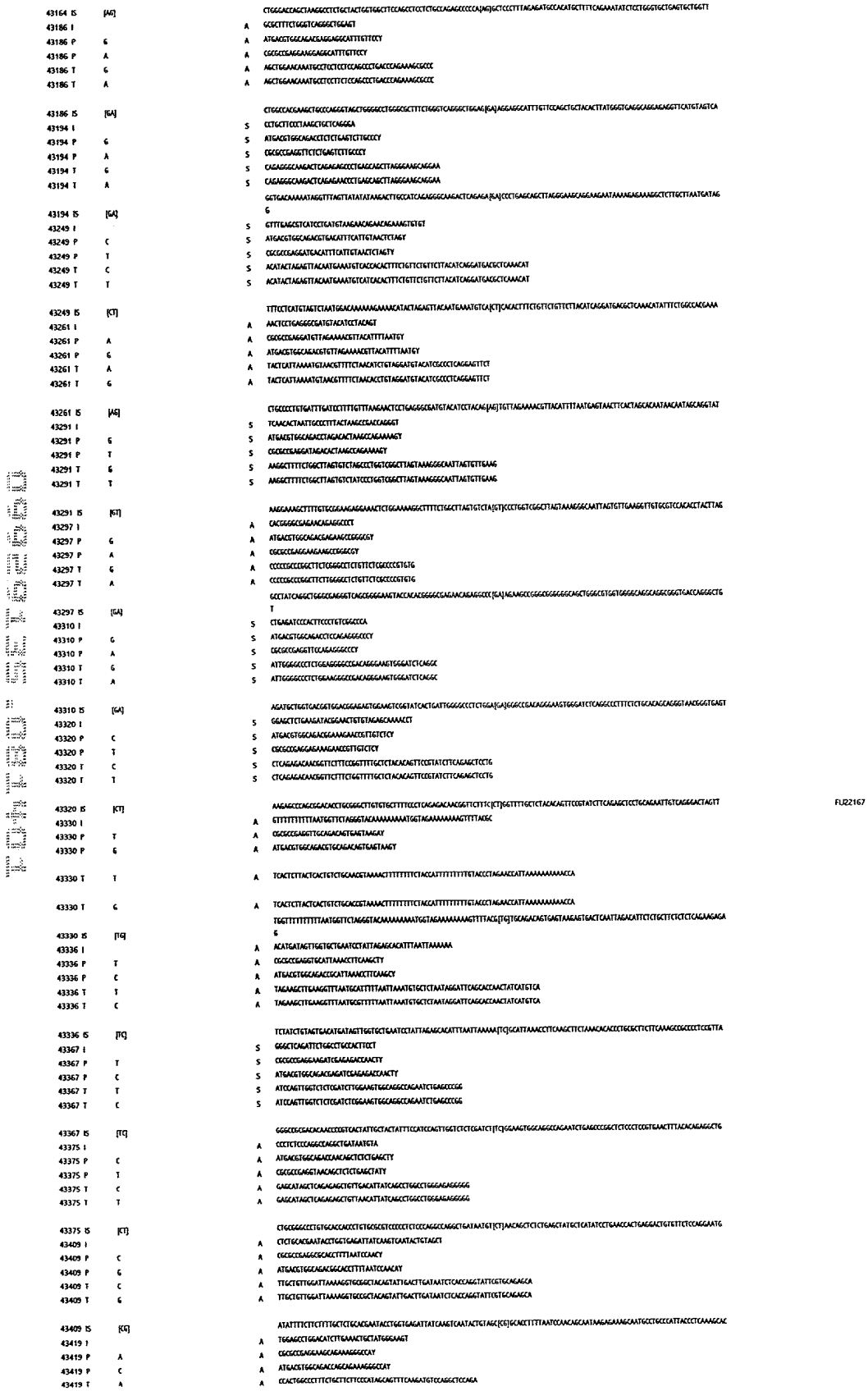


FIGURE 129F

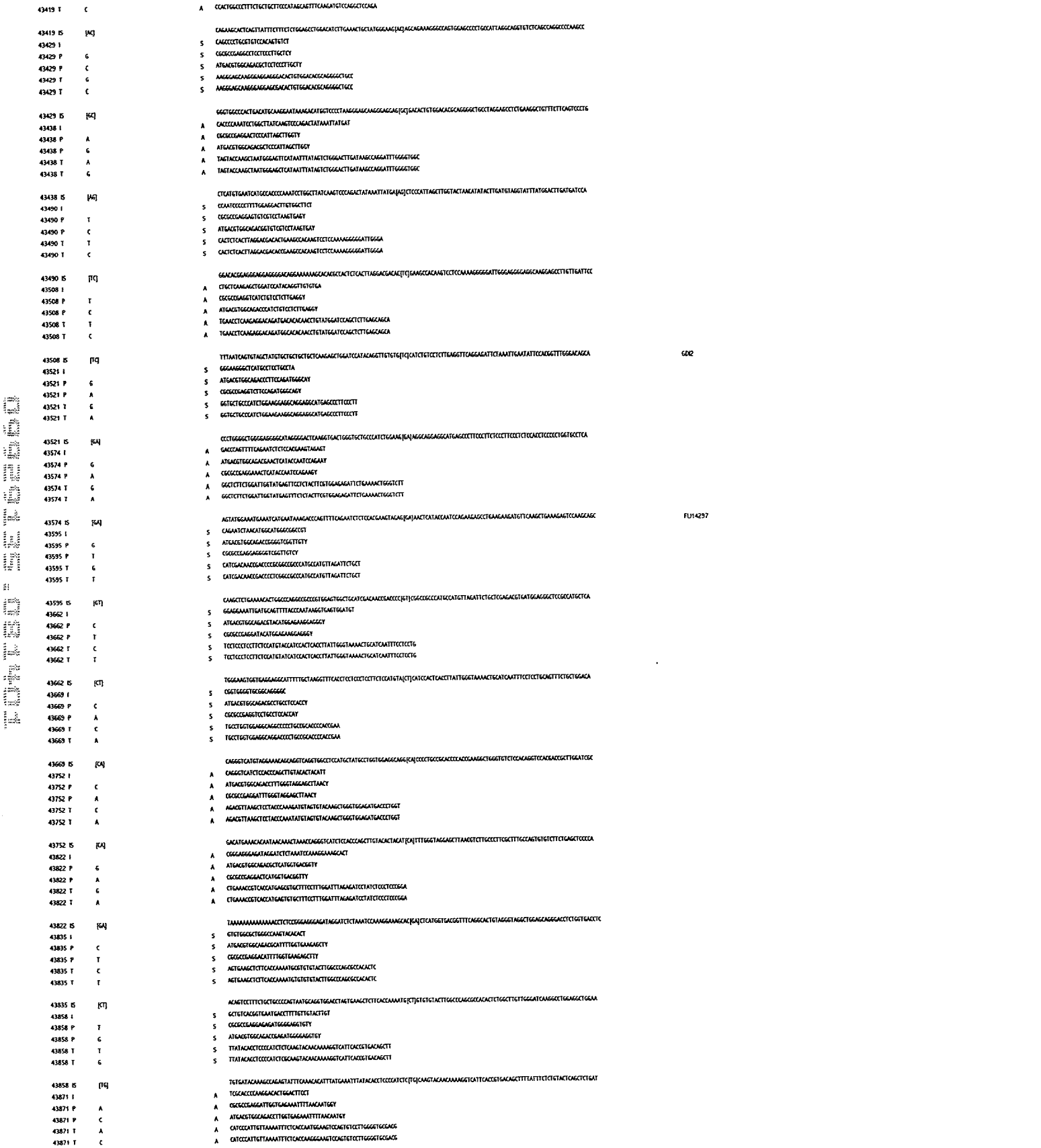


FIGURE 129F

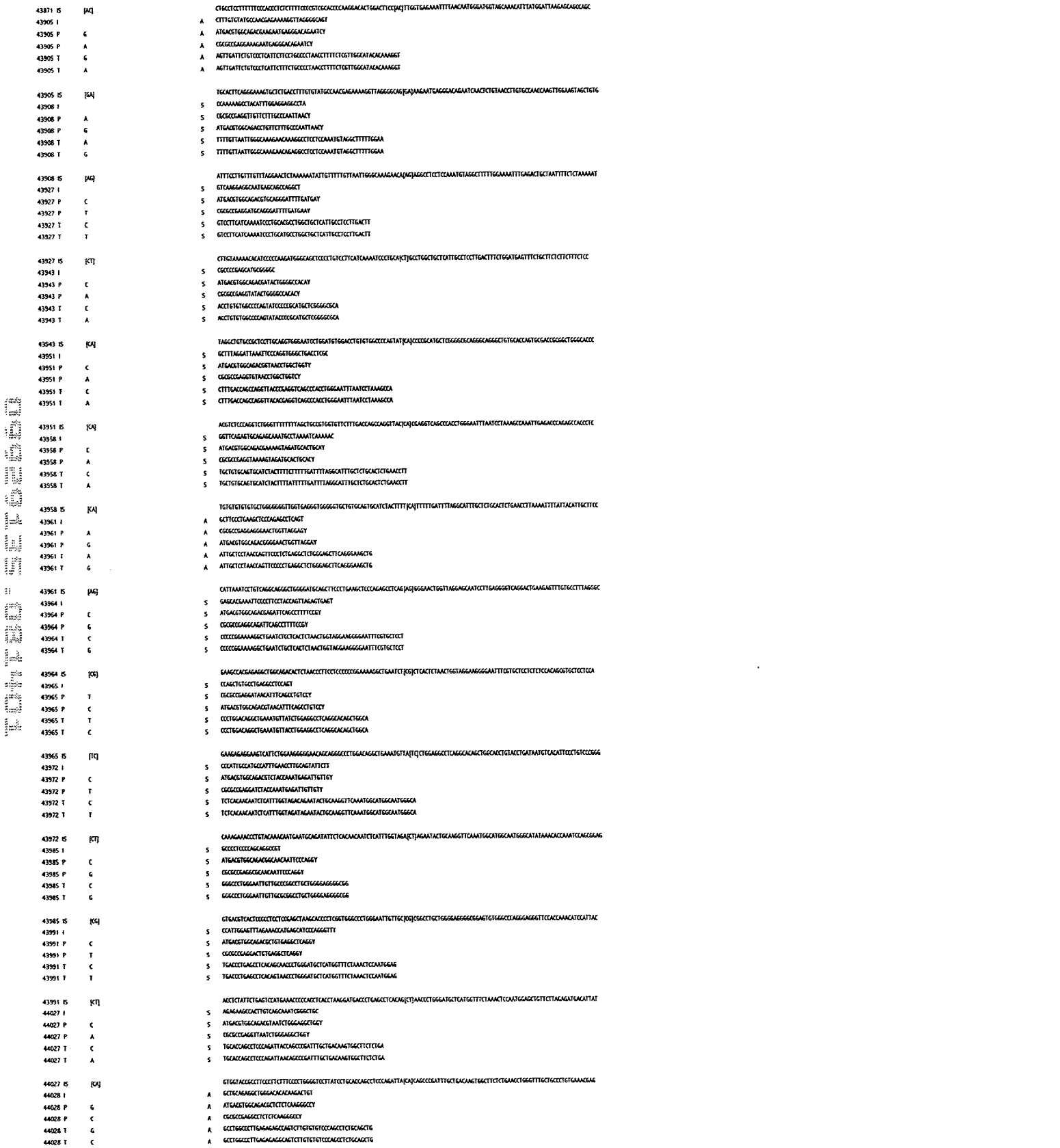


FIGURE 129F

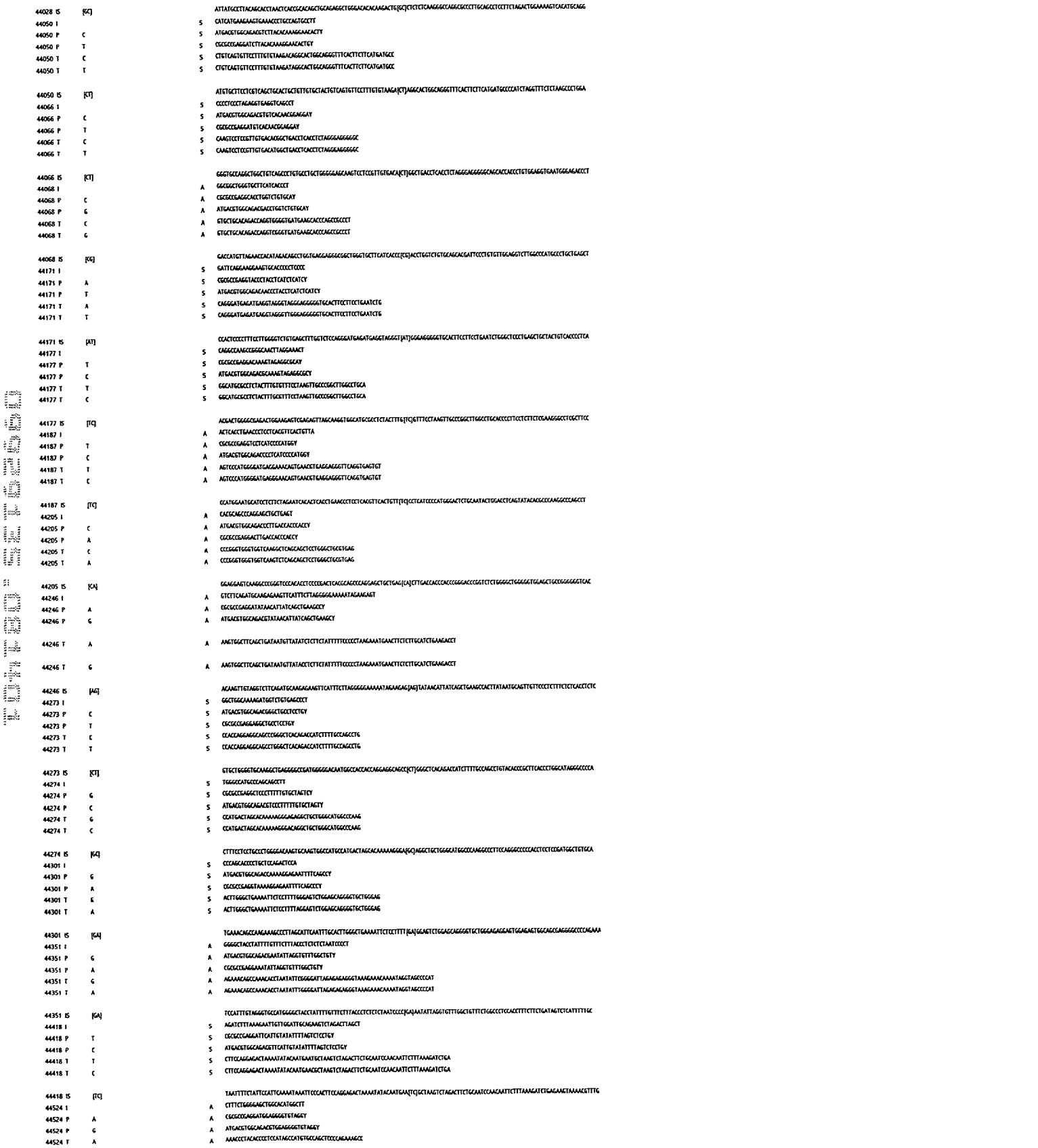
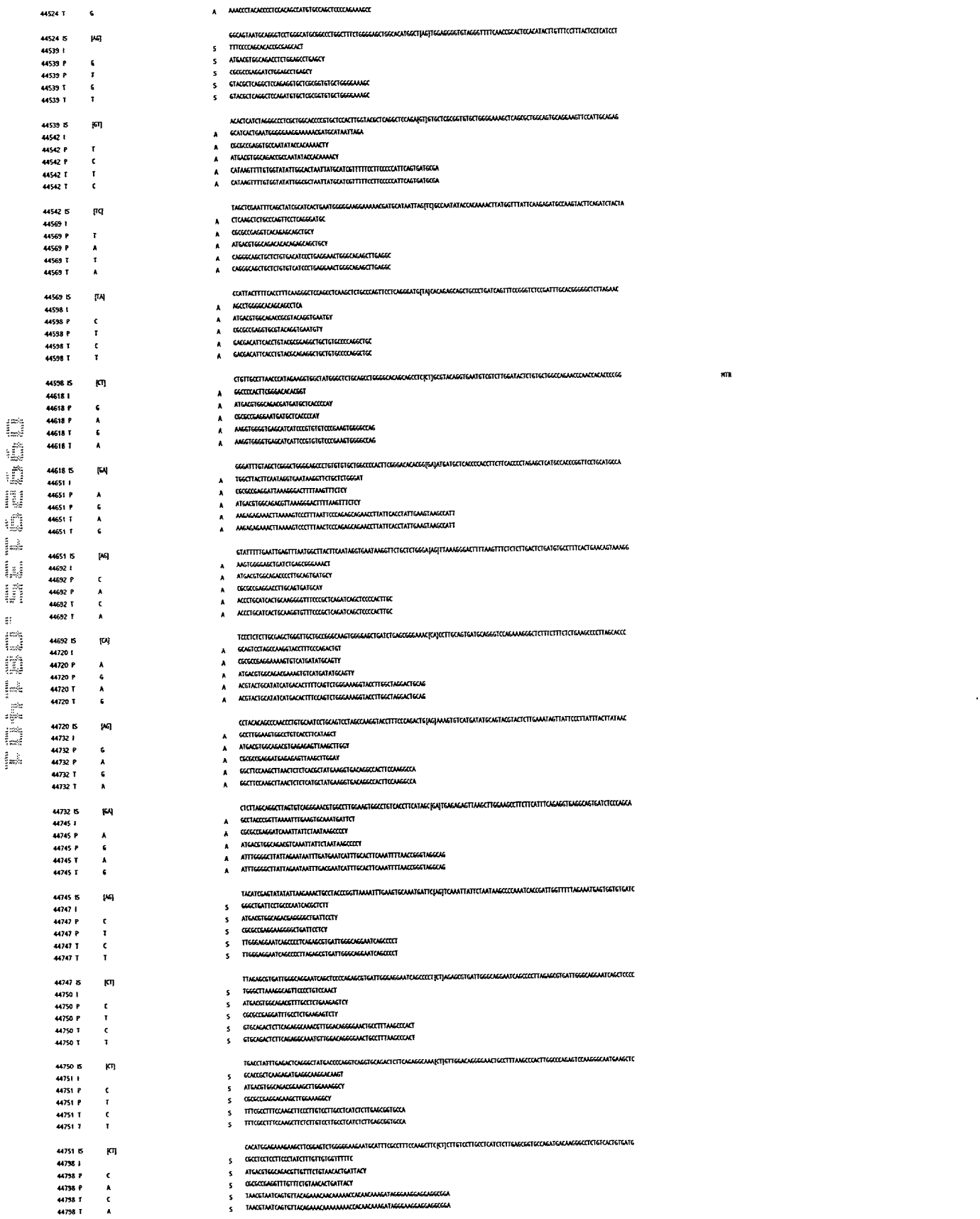


FIGURE 129F



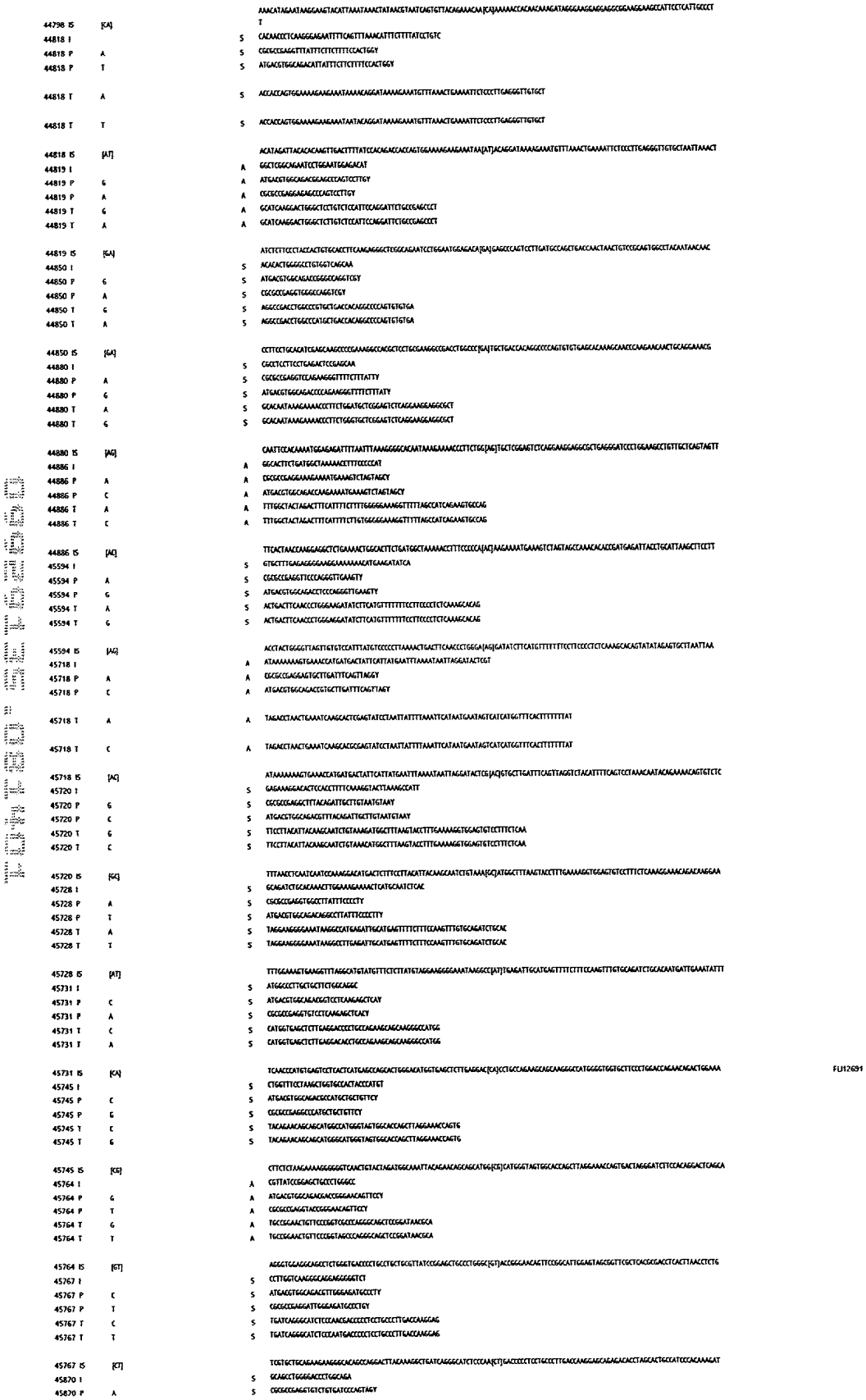


FIGURE 129F

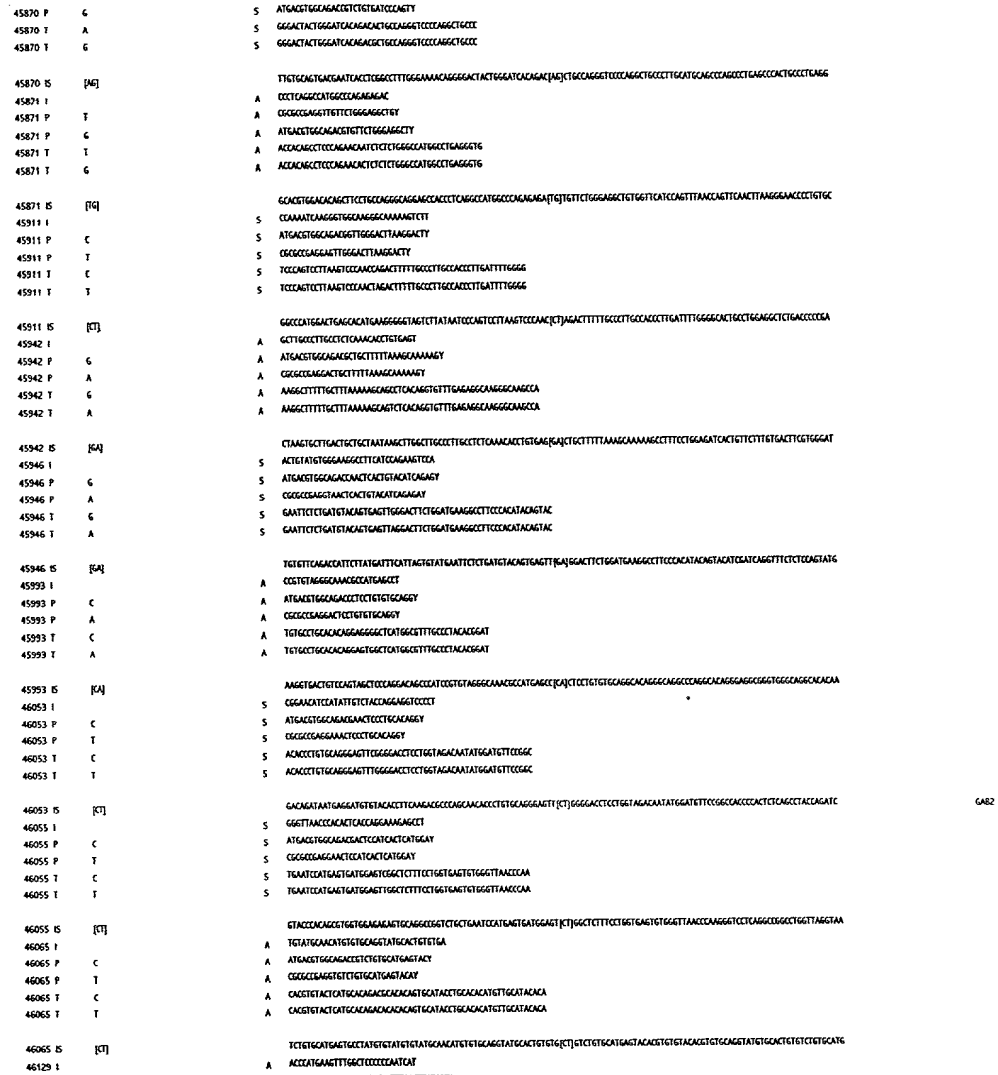


FIGURE 129F

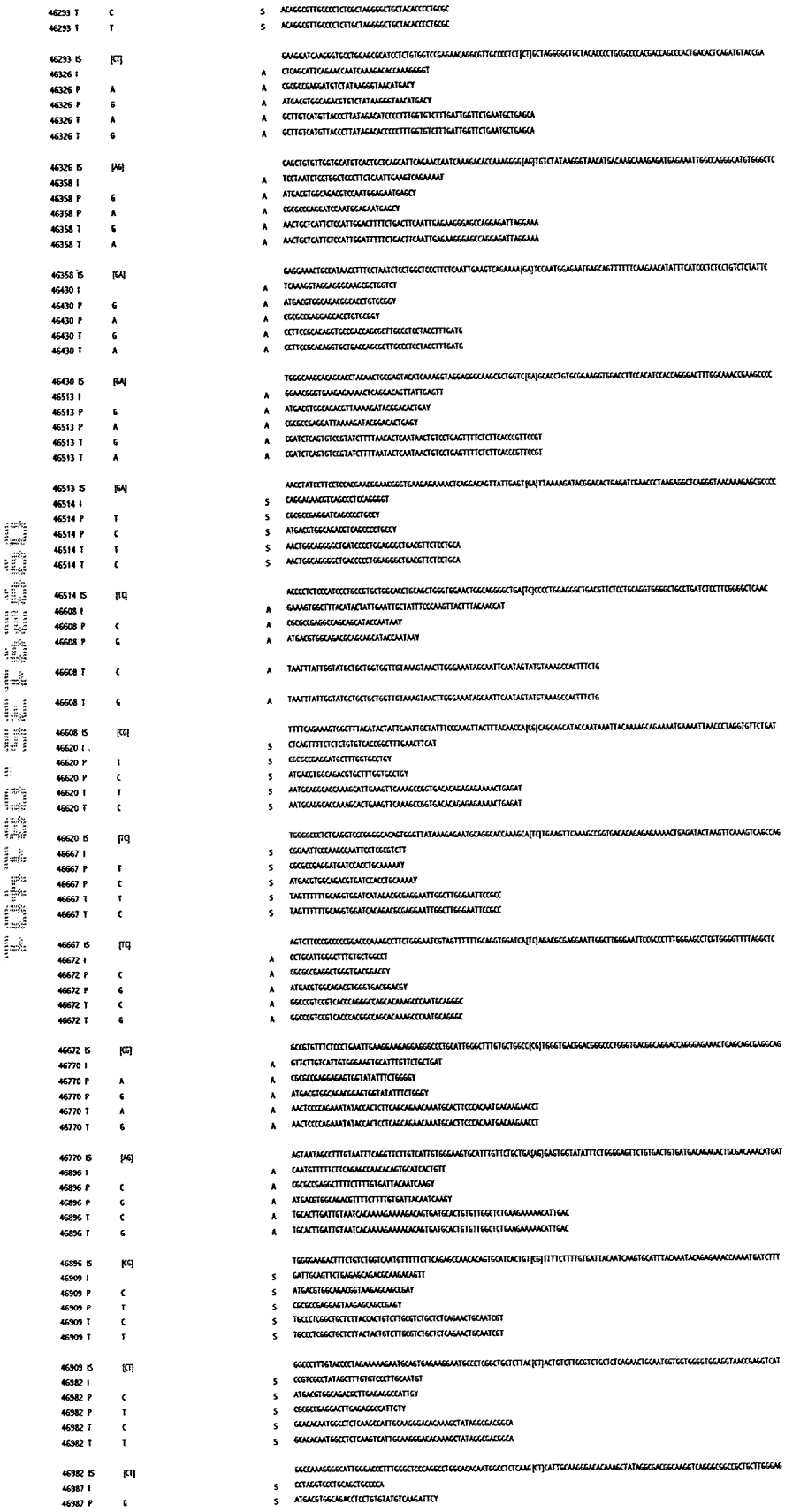


FIGURE 129F

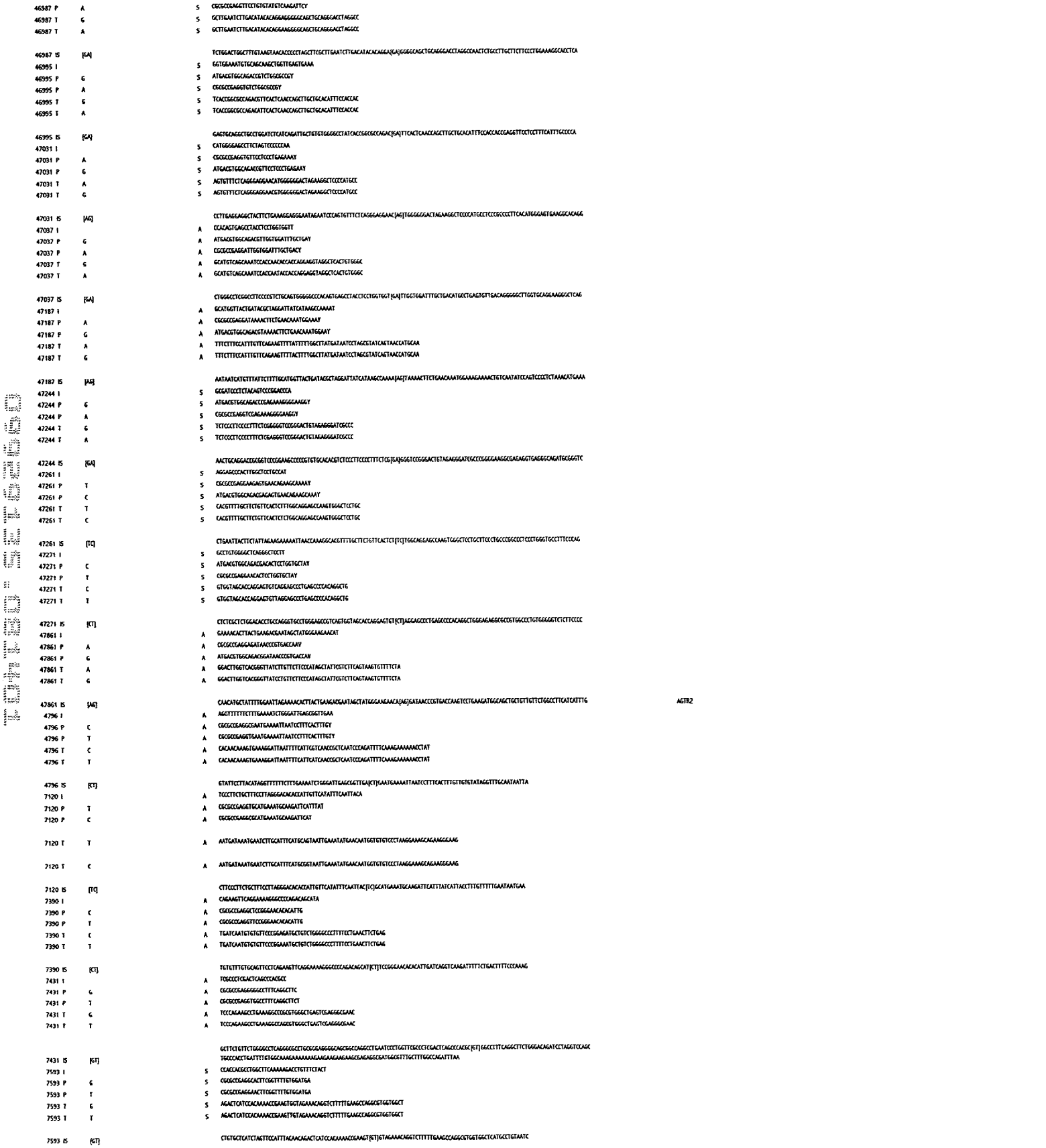

46987 P A S CGCGCCGAGGTTCCTGTGTATGTCAAGATTCY
46987 T G S GCTTGAATCTTGACATACACAGGAGGGGGCAGCTGCAGGCACCTAGGCC
46987 T A S GCTTGAATCTTGACATACACAGGAGGGGGCAGCTGCAGGGACCTAGGCC
46987 IS [GA] TCTGGACTGGCTTTGTAAGTAACACCCCCTAGCTTCGCTTGAATCTTGACATACACAGGA[GA]GGGGCAGCTGCAGGGACCTAGGCCAACTCTGCCTTGCTTCTTCCCTGGAAAGCCACCTCA
46995 I S GGTGGAAATGTGCAGCAAGCTGGTTGAGTGAAA
46995 P G S ATGACGTGGCAGACCGTCTGGCGCCGY
46995 P A S CGCGCCGAAGTGTCTGGCGCCGY
46995 T G S TCACCGGCGCCAGACGTTCACTCAACCAGCTTGCTGCACATTTCCACCAC
46995 T A S TCACCGGCGCCAGACATTCACTCAACCAGCTTGCTGCACATTTCCACCAC
46995 IS [GA] GAGTGCAGGCTGCCTGGATCTCATCAGATTGCTGTGTGGGGCCTATCACCGGCGCCAGAC[GA]TTCACTCAACCAGCTTGCTGCACATTTCCACCACCGAGGTTCCTCCTTTCATTTGCCCCA
47031 I S CATGGGGAGGCCTTCTAGTCCCCCCAA
47031 P A S CGCGCCGAAGTGTTCCTCCCTGAGAAAY
47031 P G S ATGACGTGGCAGACCGTTCCTCCCTGAGAAY
47031 T A S AGTGTTTCTCAGGGAGGAACATGGGGGGACTAGAAGGCTCCCCATGCC
47031 T G S AGTGTTTCTCAGGGAGGAACGTGGGGGGACTAGAAGGCTCCCCATGCC
47031 IS [AG] CCTTGAGGAGGCTACTTCTGAAAGGAGGGAATAGAATCCCAGTGTTTCTCAGGGAGGAAC[AG]TGGGGGGACTAGAAGGCTCCCCATGCCTCCCGCCCCTTCACATGGGAGTGAAGGCACAGG
47037 I A CCACAGTGAGCCTACCTCCTGGTGGTT
47037 P A A ATGACGTGGCAGACGTTGGTGGATTTGCTGAY
47037 P A A CGCGCCGAGGATTGGTGGATTTGCTGACY
47037 T G A GCATGTCAGCAAATCCACCAACACCACCAGGAGGTAGGCTCACTGTGGGC
47037 T A A GCATGTCAGCAAATCCACCAATACCACCAGGAGGTAGGCTCACTGTGGGC
47037 IS [GA] CTGGGCCTCGGCCTTCCCCTCTCTGCAGTGGGGGCCCACAGTGAGCCTACCTCCTGGTGGT[GA]TTGGTGGATTTGCTGACATGCCTGAGTGTTGACAGGGGGCTTGGTGCAGGAAGGGCTCAG
47187 I A GCATGGTTACTGATACGCTAGGATTATCATAAGCCAAAA
47187 P A A CGCGCCGAGGATAAAACTTCTGAACAAATGGAAAY
47187 P G A ATGACGTGGCAGACGTAAAACTTCTGAACAAATGGAAY
47187 T A A TTTCTTTCCATTTGTTCAGAAGTTTTATTTTTGGCTTATGATAATCTCAGCGTATCAGTAACCATGCAA
47187 T G A TTTCTTTCCATTTGTTCAGAAGTTTTACTTTTGGCTTATGATAATCTCAGCGTATCAGTAACCATGCAA
47187 IS [AG] AATAATCATGTTTATTCTTTTGCATGGTTACTGATACGCTAGGATTATCATAAGCCAAAA[AG]TAAAACTTCTGAACAAATGGAAAGAAACTGTCAATATCCAGTCCCCTCTAAACATGAAA
47244 I S GCGATCCCTCTACAGTCCCGGACCCA
47244 P G S ATGACGTGGCAGACCCGAGAAAGGGGAAGGY
47244 P A S CGCGCCGAGGTCCAGAAAGGGGAAGGY
47244 T G S TCTCCCTTCCCCTTTCTCGGGGGTCCGGGACTGTAGAGGGATCGCCC
47244 T A S TCTCCCTTCCCCTTTCTCGAGGGTCCGGGACTGTAGAGGGATCGCCC
47244 IS [GA] AACTGCAGGACCGCGGTCCCGGAAGCCCCCGTGTGCACACGTCTCCCTTCCCCTTTCTCG[GA]GGGTCCGGGACTGTAGAGGGATCGCCCGGGGAAGGCGAGAGGTGAGGGCAGATGCGGGTC
47261 I S AGGAGCCCACTTGGCTCCTGCCAT
47261 P T S CGCGCCGAGGAAGAGTGAACAGAGCAAAAT
47261 P C S ATGACGTGGCAGACGAGAGTGAACAGAAGCAAAT
47261 T T S CACGTTTTGCTTCTGTTCACTCTTTGGCAGGAGCCAAGTGGGCTCCTGC
47261 T C S CACGTTTTGCTTCTGTTCACTCTCTGGCAGGAGCCAAGTGGGCTCCTGC
47261 IS [TC] CTGAATTACTTCTATTAGAAGAAAAATTAACCAAAGGCACGTTTTGCTTCTGTTCACTCT[TC]TGGCAGGAGCCAAGTGGGCTCCTGCTTCCTGCCCGGCCCTCCCTGGGTGCCTTTCCCAG
47271 I S GCCTGTGGGGCTCAGGGCTCCTT
47271 P C S ATGACGTGGCAGACGACACTCCTGGTGCTAY
47271 P T S CGCGCCGAGGAACACTCCTGGTGCTAY
47271 T C S GTGGTAGCACCAGGAGTGTCAGGAGCCCTGAGCCCCACAGGCTG
47271 T T S GTGGTAGCACCAGGAGTGTTAGGNGCCCTGAGCCCCACAGGCTG
47271 IS [CT] CTCTGCCTCTGGACACCTGCCAGGGTGCCTGGGAGCCGTCAGTGGTAGCACCAGGAGTGT[CT]AGGAGCCCTGAGCCCCACAGGCTGGGAGAGGCGCCGTGCCCTGTGGGGGTCTCTTCCCC
47861 I A GAAAACACTTACTGAAGACGAATAGCTATGGGAAGAACAT
47861 P A A CGCGCCGAGGAGATAACCCGTGACCAAY
47861 P G A ATGACGTGGCAGACGATAACCCGTGACCAW
47861 T A A GGACTTGGTCACGGGTTATCTTGTTCTTCCCATAGCTATTGGTCTTCAGTAAGTGTTTTCTA
47861 T G A GGACTTGGTCACGGGTTATCCTGTCTTCTCCCATAGCTATTGGTCTTCAGTAAGTGTTTTCTA
47861 IS [AG] CAACATGCTATTTTGGAATTAGAAAACACTTACTGAAGACGAATAGCTATGGGAAGAACA[AG]GATAACCCGTGACCAAGTCCTGAAGATGGCAGCTGCTGTTGTTCTGGCCTTCATCATTTG AGTR2
4796 I A AGGTTTTTCTTTGAAAATCTGGGATTGAGCGGTTGAA
4796 P C A CGCGCCGAGGCGAATGAAAATTAATCCTTTCACTTTGY
4796 P T A CGCGCCGAGGTGAATGAAAATTAATCCTTTCACTTTGTY
4796 T C A CACAACAAAGTGAAAGGATTAATTTTCATTGGTCAACCGCTCAATCCCAGATTTTCAAAGAAAAACCTAT
4796 T T A CACAACAAAGTGAAAGGATTAATTTTCATTCAACCGCTCAATCCCAGATTTTCAAAGAAAAACCTAT
4796 IS [CT] GTATTCCTTACATAGGTTTTTTCTTTGAAAATCTGGGATTGAGCGGTTGAG[CT]GAATGAAAATTAATCCTTTCACTTTGTTGTGTATAGGTTTGCAATAATTA
7120 I A TCCCTTCTGCTTTCCTTAGGGACACACATTGTTCATATTTCAATTACATCA
7120 P T A CGCGCCGAGGTGCATGAAATGCAAGATTCATTTAT
7120 P C A CGCGCCGAGGCGCATGAAATGCAAGATTCAT
7120 T T A AATGATAAATGAATCTTGCATTTCATGCAGTAATTGAAATATGAACAATGGTGTGTCCCTAAGGAAAGCAGAAGGGAAG
7120 T C A AATGATAAATGAATCTTGCATTTCATGCGGTAATTGAAATATGAACAATGGTGTGTCCCTAAGGAAAGCAGAAGGGAAG
7120 IS [TC] CTTCCCTTCTGCTTTCCTTAGGGACACACATTGTTCATATTTCAATTAC[TC]GCATGAAATGCAAGATTCATTTATCATTACCTTTGTTTTTGAATAATGAA
7390 I A CAGAAGTTCAGGAAAAGGCCCCAGACAGCATA
7390 P C A CGCGCCGAAGGCTCCGGGAACACACATTG
7390 P T A CGCGCCGAAGGTTCCGGGAACACACATTG
7390 T C A TGATCAATGTGTGTTCCCGGAGATGCTGTCTGGGGCCCTTTTCCTGAACTTCTGAG
7390 T T A TGATCAATGTGTGTTCCCGGAAATGCTGTCTGGGGCCCTTTTCCTGAACTTCTGAG
7390 IS [CT] TGTGTTTGTGCAGTTCCTCAGAAGTTCAGGAAAAGGGCCCCAGACAGCAT[CT]TCCGGGAACACACATTGATCAGGTCAAGATTTTTCTGACTTTTCCCAAAG
7431 I A TCGCCCTCGACTCAGCCCACGCC
7431 P G A CGCGCCGAAGGGGCCTTTCAGGCTTC
7431 P T A CGCGCCGAGGTGGCCTTTCAGGCTTCT
7431 T G A TCCCAGAAGCCTGAAAGGCCCGCGTGGGCTGAGTCGAGGGCGAAC
7431 T T A TCCCAGAAGCCTGAAAGGCCAGCGTGGGCTGAGTCGAGGGCGAAC
7431 IS [GT] GCTTCTGTTCTGGGGCCTCAGGGGCCTGCGGCAGGGGCAGCGGCCAGGCCTGAATCCCTGGTTGCCCCTCGACTCAGCCCACGC[GT]GGCCTTTCAGGCTTCTGGGACAGATCCTAGGTCCAGC
7593 I S CCACCACGCCTGGCTTCAAAAAGACCTGTTTCTACT
7593 P G S CGCGCCGAAGGCACTTCGGTTTTGTGGATGA
7593 P T S CGCGCCGAAGGAACTTCGCTTTTGTGGATGA
7593 T G S AGACTCATCCACAAAACCGAAGTGCTAGAAACAGGTCTTTTTGAAGCCAGGCGTGGTGGCT
7593 T T S AGACTCATCCACAAAACCGAAGTTGTAGAAACAGGTCTTTTTGAAGCCAGGCGTGGTGGCT
7593 IS [GT] CTGTGCTCATCTAGTTCCATTTACAACAGACTCATCCACAAAACCGAAGT[GT]GTAGAAACAGGTCTTTTTGAAGCCAGGCGTGGTGGCTCATGCCTGTAATC

FIGURE 129F

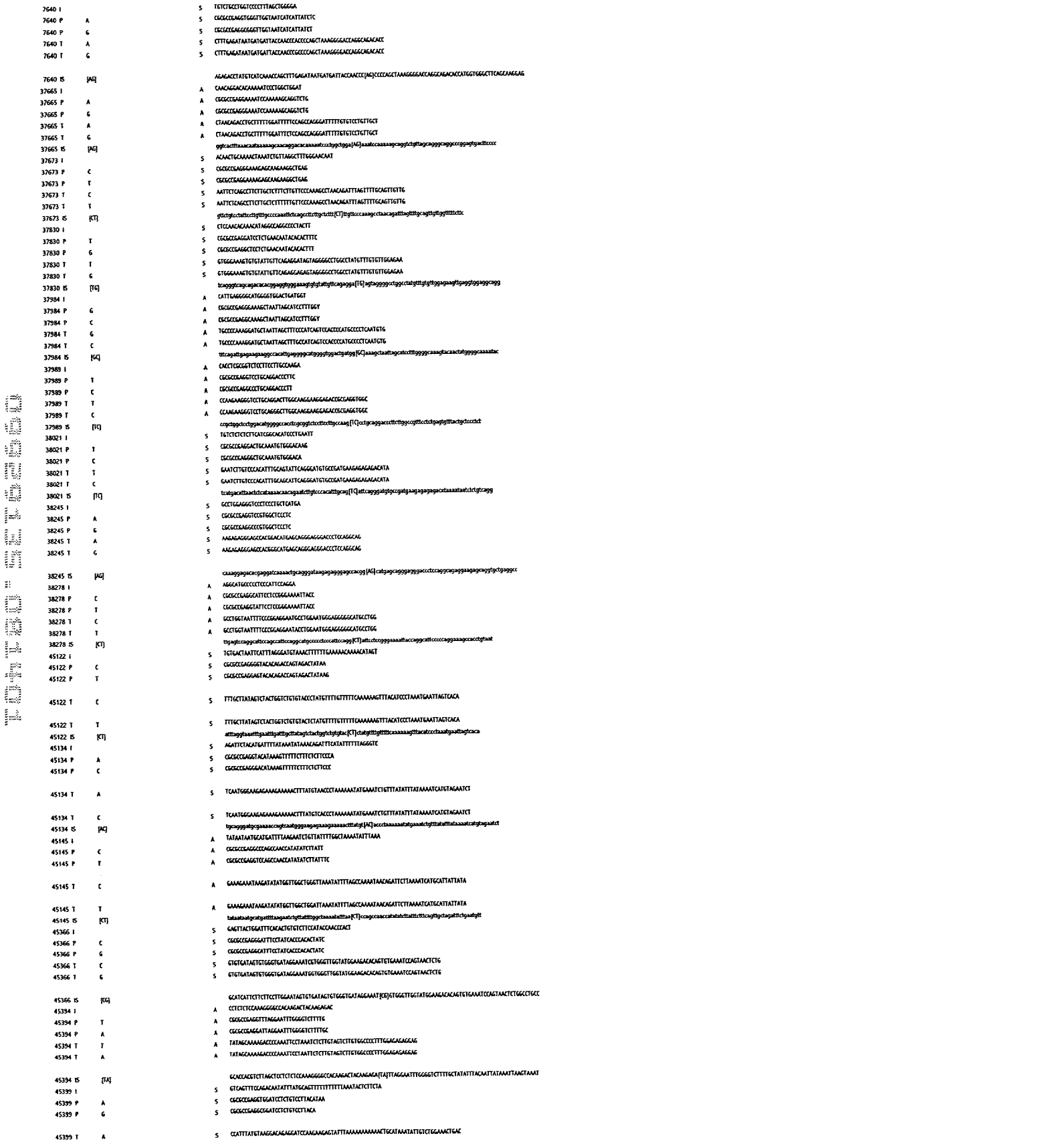


FIGURE 129F

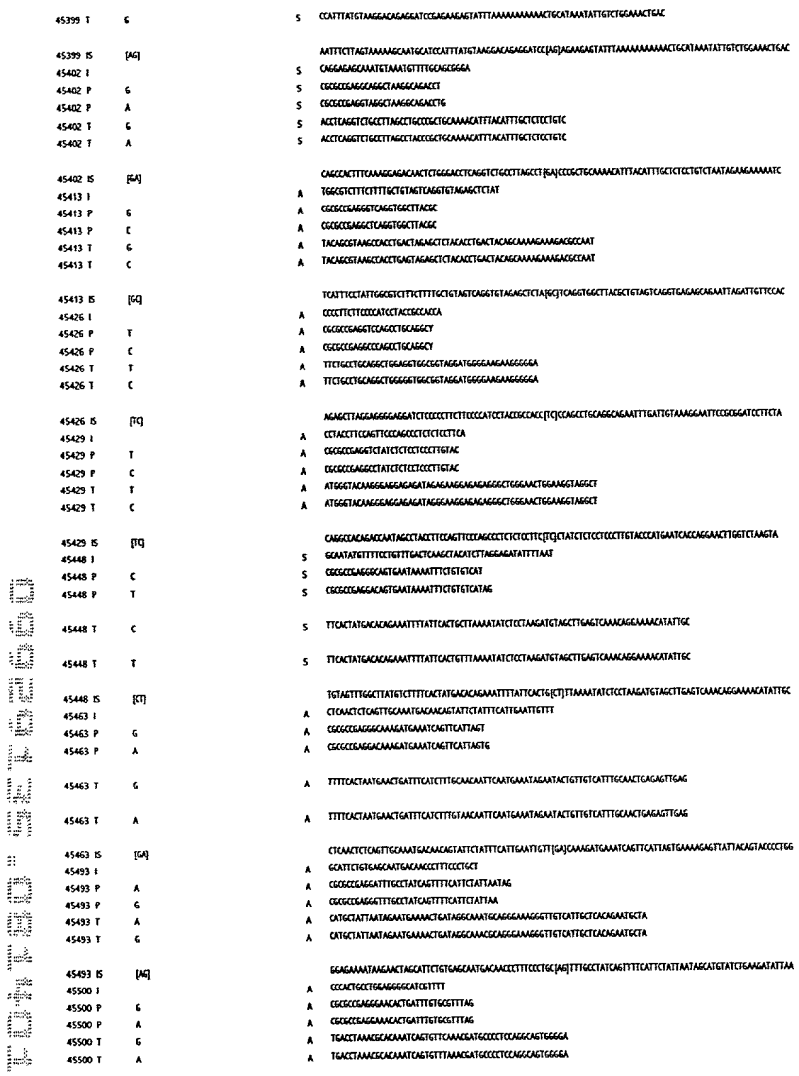
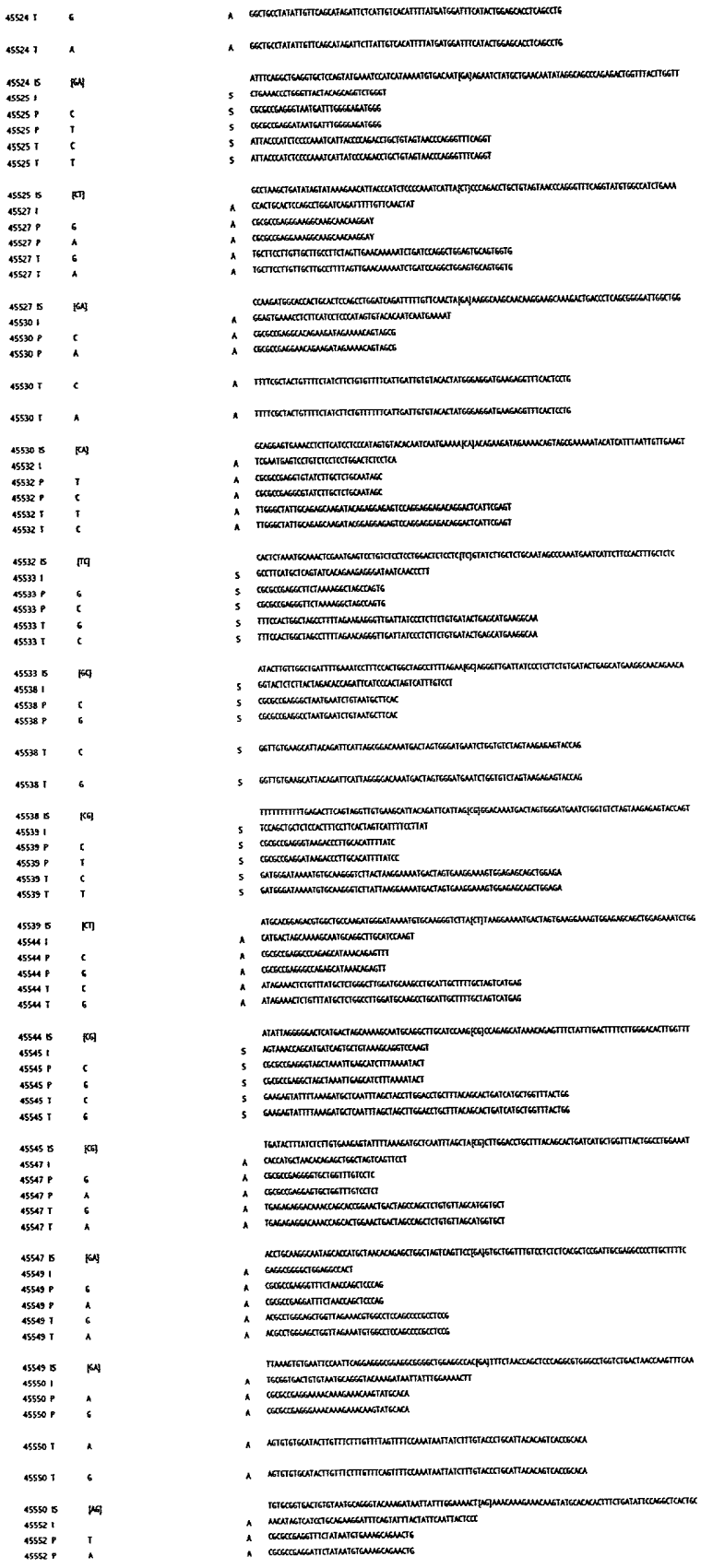

45399 T G S CCATTTATGTAAGGACAGAGGATCCGAGAAGAGTATTTAAAAAAAAAAACTGCATAAATATTGTCTGGAAACTGAC
45399 IS [AG] ATTTCTTAGTAAAAAGCAATGCATCCATTTATGTAAGGACAGAGGATCC[AG]AGAAGAGTATTTAAAAAAAAAACTGCATAAATATTGTCTGGAAACTGAC
45402 I S CAGGAGAGCAAATGTAAATGTTTTGCAGCGGGA
45402 P G S CGCGCCGAGGCAGGCTAAGGCAGACCT
45402 P A S CGCGCCGAGGTAGGCTAAGGCAGACCTG
45402 T G S ACCTCAGGTCTGCCTTAGCCTACCCGCTGCAAAACATTTACATTTGCTCTCCTGTC
45402 T A S ACCTCAGGTCTGCCTTAGCCTACCCGCTGCAAAACATTTACATTTGCTCTCCTGTC
45402 IS [GA] CAGCCACTTTCAAAGGAGACAACTCTGGGACCTCAGGTCTGCCTTAGCCT[GA]CCCGCTGCAAAACATTTACATTTGCTCTCCTGTCTAATAGAAGAAAAATC
45413 I A TGGCGTCTTTCTTTTGCTGTAGTCAGGTGTAGAGCTCTAT
45413 P G A CGCGCCGAGGGTCAGGTGGCTTACGC
45413 P C A CGCGCCGAGGCTCAGGTGGCTTACGC
45413 T G A TACAGCGTAAGCCACCTGACTAGAGCTCTACACCTGACTACAGCAAAAGAAAGACGCCAAT
45413 T C A TACAGCGTAAGCCACCTGAGTAGAGCTCTACACCTGACTACAGCAAAAGAAAGACGCCAAT
45413 IS [GC] TCATTTCCTATTGGCGTCTTCTTTTGCTGTAGTCAGGTGTAGAGCTCTA[GC]TCAGGTGGCTTACGCTGTAGTCAGGTGAGAGCAGAATTAGATTGTTCCAC
45426 I A CCCCTTCTTCCCCATCCTACCGCCACCA
45426 P T A CGCGCCGAGGTCCAGCCTGCAGGCT
45426 P C A CGCGCCGAGGCCCAGCCTGCAGGCT
45426 T T A TTCTGCCTGCAGGCTGGGGGTGGCGGTAGGATGGGGAAGAAGGGGGA
45426 T C A TTCTGCCTGCAGGCTGGGGGTGGCGGTAGGATGGGGAAGAAGGGGGA
45426 IS [TC] AGAGCTTAGGAGGGGAGGATCTCCCCCTTCTTCCCCATCCTACCGCCACC[TC]CCAGCCTGCAGGCAGAATTTGATTGTAAAGGAATTCCGCGGATCCTTCTA
45429 I A CCTACCTTCCAGTTCCCAGCCCTCTCTCCTTCA
45429 P T A CGCGCCGAGGTCTATCTCTCCTCCCTTGTAC
45429 P C A CGCGCCGAGGCCTATCTCTCCTCCCTTGTAC
45429 T T A ATGGGTACAAGGGAGGAGAGATAGAGAAGGAGAGAGGGCTGGGAACTGGAAGGTAGGCT
45429 T C A ATGGGTACAAGGGAGGAGAGATAGGGAAGGAGAGAGGGCTGGGAACTGGAAGGTAGGCT
45429 IS [TC] CAGGCCACAGACCAATAGCCTACCTTCCAGTTCCCAGCCCTCTCTCCTTC[TC]CTATCTCTCCTCCCTTGTACCCATGAATCACCAGGAAACTTGGTCTAAGTA
45448 I S GCAATATGTTTTCCTGTTTGACTCAAGCTACATCTTAGGAAGATATTTTAAT
45448 P C S CGCGCCGAGGGCAGTGAATAAAATTTCTGTGTCAT
45448 P T S CGCGCCGAGGACAGTGAATAAAATTTCTGTGTCATAG
45448 T C S TTCACTATGACACAGAAATTTTATTCACTGCTTAAAATATCTCCTAAGATGTAGCTTGAGTCAAACAGGAAAACATATTGC
45448 T T S TTCACTATGACACAGAAATTTTATTCACTGTTAAAATATCTCCTAAGATGTAGCTTGAGTCAAACAGGAAAACATATTGC
45448 IS [CT] TGTAGTTTGGCTTATGTCTTTTCACTATGACACAGAAATTTTATTCACTG[CT]TTAAAATATCTCCTAAGATGTAGCTTGAGTCAAACAGGAAAACATATTGC
45463 I A CTCAACTCTCAGTTGCAAATGACAACAGTATTCTATTTCATTGAATTGTT
45463 P G A CGCGCCGAGGGCAAAGATGAAATCAGTTCATTAGT
45463 P A A CGCGCCGAGGACAAAGATGAAATCAGTTCATTAGTG
45463 T G A TTTTCACTAATGAACTGATTTCATCTTTGTAACAATTCAATGAAATAGAATACTGTTGTCATTTGCAACTGAGAGTTGAG
45463 T A A TTTTCACTAATGAACTGATTTCATCTTTGTAACAATTCAATGAAATAGAATACTGTTGTCATTTGCAACTGAGAGTTGAG
45463 IS [GA] CTCAACTCTCAGTTGCAAATGACAACAGTATTCTATTTCATTGAATTGTT[GA]CAAAGATGAAATCAGTTCATTAGTGAAAAGAGTTATTACAGTACCCCTGG
45493 I A GCATTCTGTGAGCAATGACAACCCTTTCCCTGCT
45493 P A A CGCGCCGAGGATTTGCCTATCAGTTTTCATTCTATTAATAG
45493 P G A CGCGCCGAGGGTTTGCCTATCAGTTTTCATTCTATTAA
45493 T A A CATGCTATTAATAGAATGAAAACTGATAGGCAAATGCAGGGAAAGGGTTGTCATTGCTCACAGAATGCTA
45493 T G A CATGCTATTAATAGAATGAAAACTGATAGGCAAACGCAGGGAAAGGGTTGTCATTGCTCACAGAATGCTA
45493 IS [AG] GGAGAAATAAGAACTAGCATTCTGTGAGCAATGACAACCCTTTCCCTGC[AG]TTTGCCTATCAGTTTTCATTCTATTAATAGCATGTATCTGAAGATATTAA
45500 I A CCCACTGCCTGGAGGGGCATCGTTTT
45500 P G A CGCGCCGAGGGAACACTGATTTGTGCGTTTAG
45500 P A A CGCGCCGAGGAAACACTGATTTGTGCGTTTAG
45500 T G A TGACCTAAACGCACAAATCAGTGTTCAAACGATGCCCCTCCAGGCAGTGGGGA
45500 T A A TGACCTAAACGCACAAATCAGTGTTTAAACGATGCCCCTCCAGGCAGTGGGGA
45500 IS [GA] CCTGTCTCCTCCAAACACATCTCTCCCCACTGCCTGGAGGGGCATCGTTT[GA]AACACTGATTTGTGCGTTTAGGTCACTGGATCCCTGAACCCCTACCTACC
45508 I A ACATTTCTTTTATGATTTCCATAGCAGTTTAACACCTGGAATGTAGTTTAA
45508 P T A CGCGCCGAGGTGTTTTGGAGGAAAAAGACTTATTTATT
45508 P C A CGCGCCGAGGCGTTTTGGAGGAAAAAGACTTATTTAT
45508 T T A ATGAAATAAATAAGTCTTTTTCCTCCAAAAGATAAACTACATTCCAGGTGTTAAACTGCTATGGAAATCATAAAAGAAATGT
45508 T C A ATGAAATAAATAAGTCTTTTTCCTCCAAAAGTAAACTACATTCCAGGTGTTAAACTGCTATGGAAATCATAAAAGAAATGT
45508 IS [TC] ACATTTCTTTTATGATTTCCATAGCAGTTTAACACCTGGAATGTAGTTTA[TC]GTTTTGGAGGAAAAAGACTTATTTATTTCATTTTATTGATTTTTTTTCAA
45512 I A TCCCACAGGTAAATATTCTTCATGTAGCCAATAAAGGAAAAGTATATCTC
45512 P T A CGCGCCGAGGTTAAATGATTTCAAGGTTTTCGACAC
45512 P A A CGCGCCGAGGATAAATGATTTCAAGGTTTTCGACAC
45512 T T A ATCTGTGTCGAAAACCTTGAAATCATTTAAAGATATACTTTTCCTTTTATTGGCTACATGAAGAATATTTACCTGTGGGA
45512 T A A ATCTGTGTCGAAAACCTTGAAATCATTTATAGATATACTTTTCCTTTTATTGGCTACATGAAGAATATTTACCTGTGGGA
45512 IS [TA] TCCCACAGGTAAATATTCTTCATGTAGCCAATAAAGGAAAAGTATATCT[TA]TAAATGATTTCAAGGTTTTCGACACAGATAAATATTCTATCTGGAGACAT
45522 I S GGCCTGGCACAGAGCCTGGAAAGTAATAGAAACATAATCCT
45522 P T S CGCGCCGAGGATGTTGATTAAGTGAATACTCCAGG
45522 P C S CGCGCCGAGGGTGTTGATTAAGTGAATACTCCAGG
45522 T T S ACGACCTGGAGTATTCACTTAATCAACATGGATTATGTTTCTATTACTTTCCAGGCTCTGTGCCAGGCCCT
45522 T C S ACGACCTGGAGTATTCACTTAATCAACACGGATTATGTTTCTATTACTTTCCAGGCTCTGTGCCAGGCCCT
45522 IS [TC] ACTGTAAGAGGATAATAGATGTACGACCTGGAGTATTCACTTAATCAACA[TC]GGATTATGTTTCTATTACTTTCCAGGCTCTGTGCCAGGCCCTGGGCATTC
45523 I S GGATGTGGCCAGATTCTCTGAATGTGGACATGCAGT
45523 P C S CGCGCCGAGGGCACCCACTCCAACAC
45523 P G S CGCGCCGAGGCACCCACTCCAACAC
45523 T C S CTGGGTGTTGGAGTGGGTGCCTGCATGTCCACATTCAGAGAATCTGGCCACATCCGC
45523 T G S CTGGGTGTTGGAGTGGGTGGCTGCATGTCCACATTCAGAGAATCTGGCCACATCCGC
45523 IS [CG] CCTTTCAGAAAGCACTTAAGACAGCCACTCCCTGGGTGTTGGAGTGGGTG[CG]CTGCATGTCCACATTCAGAGAATCTGGCCACATCCGCTCCTCCTCACTCC
45524 I A GGCTGAGGTGCTCCAGTATGAAATCCATCATAAAATGTGACAATT
45524 P G A CGCGCCCAGGCAGAATCTATGCTGAACAATATAGGCT
45524 P A A CGCGCCCAGGAAGAATCTATGCTCAACAATATAGGCT

FIGURE 129F


45524 T G A GGCTGCCTATATTGTTCAGCATAGATTCTCATTGTCACATTTTATGATGGATTTCATACTGGAGCACCTCAGCCTG
45524 T A A GGCTGCCTATATTGTTCAGCATAGATTCTTATTGTCACATTTTATGATGGATTTCATACTGGAGCACCTCAGCCTG
45524 IS [GA] ATTTCAGGCTGAGGTGCTCCAGTATGAAATCCATCATAAAATGTGACAAT[GA]AGAATCTATGCTGAACAATATAGGCAGCCCAGAGACTGGTTTACTTGGTT
45525 I S CTGAAACCCTGGGTTACTACAGCAGTCTGGGT
45525 P C S CGCGCCGAGGGTAATGATTTGGGGAGATGGG
45525 P T S CGCGCCGAGGATAATGATTGGGGAGATGGG
45525 T C S ATTACCCATCTCCCCAAATCATTACCCCAGACCTGCTGTAGTAACCCAGGGTTTCAGGT
45525 T T S ATTACCCATCTCCCCAAATCATTATCCCAGACCTGCTGTAGTAACCCAGGGTTTCAGGT
45525 IS [CT] GCCTAAGCTGATATAGTATAAAGAACATTACCCATCTCCCCAAATCATTA[CT]CCCAGACCTGCTGTAGTAACCCAGGGTTTCAGGTATGTGGCCATCTGAAA
45527 I A CCACTGCACTCCAGCCTGGATCAGATTTTTGTTCAACTAT
45527 P G A CGCGCCGAGGGAAGGCAAGCAACAAGGAY
45527 P A A CGCGCCGAGGAAAGGCAAGCAACAAGGAY
45527 T G A TGCTTCCTTGTTGCTTGCCTTCTAGTTGAACAAAATCTGATCCAGGCTGGAGTGCAGTGGTG
45527 T A A TGCTTCCTTGTTGCTTGCCTTTTAGTTGAACAAAATCTGATCCAGGCTGGAGTGCAGTGGTG
45527 IS [GA] CCAAGATGGCACCACTGCACTCCAGCCTGGATCAGATTTTTGTTCAACTA[GA]AAGGCAGCAACAAGGAAGCAAAGACTGACCCTCAGCGGGGATTGGCTGG
45530 I A GGAGTGAAACTCTTCATCCTCCCATAGTGTACACAATCAATGAAAT
45530 P C A CGCGCCGAGGACAGAAGATAGAAAACAGTAGCG
45530 P A A CGCGCCGAGGAACAGAAGATAGAAAACAGTAGCG
45530 T C A TTTTCGCTACTGTTTCTATCTTCTGTGTTTTCATTGATTGTGTACACTATGGGAGGATGAAGAGGTTTCACTCCTG
45530 T A A TTTTCGCTACTGTTTTCTATCTTCTGTTTTTTCATTGATTGTGTACACTATGGGAGGATGAAGAGGTTTCACTCCTG
45530 IS [CA] GCAGGAGTGAAACCTCTTCATCCTCCCATAGTGTACACAATCAATGAAAA[CA]ACAGAAGATAGAAAACAGTAGCGAAAAATACATCATTTAATTGTTGAAGT
45532 I A TCGAATGAGTCCTGTCTCCTCCTGGACTCTCCTCA
45532 P T A CGCGCCGAGGTGTATCTTGCTCTGCAATAGC
45532 P C A CGCGCCGAGGGTATCTTGCTCTGCAATAGC
45532 T T A TTGGGCTATTGCAGAGCAAGATACAGAGGAGAGTCCAGGAGGAGACAGGACTCATTCGAGT
45532 T C A TTGGGCTATTGCAGAGCAAGATACGGAGGAGAGTCCAGGAGGAGACAGGACTCATTCGAGT
45532 IS [TC] CACTCTAAATGCAAACTCGAATGAGTCGTGTCTCCTCCTGGACTCTCCTC[TC]GTATCTTGCTCTGCAATAGCCCAAATGAATCATTCTTCCACTTTGCTCTC
45533 I S GCCTTCATGCTCAGTATCACAGAAGAGGGATAATCAACCCTT
45533 P G S CGCGCCGAGGCTTCTAAAAGGCTAGCCAGTG
45533 P C S CGCGCCGAGGGTTCTAAAAGGCTAGCCAGTG
45533 T G S TTTCCACTGGCTAGCCTTTTAGAAGAGGGTTGATTATCCCTCTTCTGTGATACTGAGCATGAAGGCAA
45533 T C S TTTCCACTGGCTAGCCTTTTAGAACAGGGTTGATTATCCCTCTTCTGTGATACTGAGCATGAAGGCAA
45533 IS [GC] ATACTTGTTGGCTGATTTTGAAATCCTTTCCACTGGCTAGCCTTTTAGAA[GC]AGGGTTGATTATCCCTCTTCTGTGATACTGAGCATGAAGGCAACAGAACA
45538 I S GGTACTCTCTTACTAGACACCAGATTCATCCCACTAGTCATTTGTCCT
45538 P C S CGCGCCGAGGGCTAATGAATCTGTAATGCTTCAC
45538 P G S CGCGCCGAGGCCTAATGAATCTGTAATGCTTCAC
45538 T C S GGTTGTGAAGCATTACAGATTCATTAGCGGACAAATGACTAGTGGGATGAATCTGGTGTCTAGTAAGAGAGTACCAG
45538 T G S GGTTGTGAAGCATTACAGATTCATTAGGGCACAAATGACTAGTGGGATGAATCTGGTGTCTAGTAAGAGAGTACCAG
45538 IS [CG] TTTTTTTTTTGAGACTTCAGTAGGTTGTGAAGCATTACAGATTCATTAG[CG]GGACAAATGACTAGTGGGATGAATCTGGTGTCTAGTAAGAGAGTACTAGT
45539 I S TCCAGCTGCTCTCCACTTTCCTTCACTAGTCATTTTCCTTAT
45539 P C S CGCGCCGAGGGTAAGACCCTTGCACATTTTATC
45539 P T S CGCGCCGAGGATAAGACCCTTGCACATTTTATCC
45539 T C S GATGGGATAAAATGTGCAAGGGTCTTACTAAGGAAAATGACTAGTGAAGGAAAGTGGAGAGCAGCTGGAGA
45539 T T S GATGGGATAAAATGTGCAAGGGTCTTATTAAGGAAAATGACTAGTGAAGGAAAGTGGAGAGCAGCTGGAGA
45539 IS [CT] ATGCACGGAGACGTGGCTGCCAAGATGGGATAAAATGTGCAAGGGTCTTA[CT]TAAGGAAAATGACTAGTGAAGGAAAGTGGAGAGCAGCTGGAGAAATCTGG
45544 I A CATGACTAGCAAAGCAATGCAGGCTTGCATCCAAGT
45544 P C A CGCGCCGAGGCCCAGAGCATAAACAGAGTTT
45544 P G A CGCGCCGAGGGCCAGAGCATAAACAGAGTT
45544 T C A ATAGAAACTCTGTTTATGCTCTGGCCTTGGATGCAAGCCTGCATTGCTTTTGCTAGTCATGAG
45544 T G A ATAGAAACTCTGTTTATGCTCTGGCCTTGGATGCAAGCCTGCATTGCTTTTGCTAGTCATGAG
45544 IS [CG] ATATTAGGGGGACTCATGACTAGCAAAAGCAATGCAGGCTTGCATCCAAG[CG]CCAGAGCATAAACAGAGTTTCTATTTGACTTTTCTTGGGACACTTGGTTT
45545 I S AGTAAACCAGCATGATCAGTGCTGTAAAGCAGGTCCAAGT
45545 P C S CGCGCCGAGGGTAGCTAAATTGAGCATCTTTAAAATACT
45545 P G S CGCGCCGAGGCTAGCTAAATTGAGCATCTTTAAAATACT
45545 T C S GAAGAGTATTTTAAAGATGCTCAATTTAGCTACCTTGGACCTGCTTTACAGCACTGATCATGCTGGTTTACTGG
45545 T G S GAAGAGTATTTTAAAGATGCTCAATTTAGCTAGCTTGGACCTGCTTTACAGCACTGATCATGCTGGTTTACTGG
45545 IS [CG] TGATACTTTATCTCTTGTGAAGAGTATTTTAAAGATGCTCAATTTAGCTA[CG]CTTGGACCTGCTTTACAGCACTGATCATGCTGGTTTACTGGCCTTGGAAAT
45547 I A CACCATGCTAACACAGAGCTGGCTAGTCAGTTCCT
45547 P G A CGCGCCGAGGGGTGCTGGTTTGTCCTC
45547 P A A CGCGCCGAGGAGTGCTGGTTTGTCCTCT
45547 T G A TGAGAGAGGACAAACCAGCACCGGAACTGACTAGCCAGCTCTGTGTTAGCATGGTGCT
45547 T A A TGAGAGAGGACAAACCAGCACTGGAACTGACTAGCCAGCTCTGTGTTAGCATGGTGCT
45547 IS [GA] ACCTGCAAGGCAATAGCAGCATGCTAACACAGAGCTGGCTAGTCAGTTCC[GA]GTGCTGGTTTGTCCTCTCTCACGCTCCGATTGCGAGGCCCCTTGCTTTTC
45549 I A GAGGCGGGGCTGGAGGCCACT
45549 P G A CGCGCCGAGGGTTTCTAACCAGCTCCCAG
45549 P A A CGCGCCGAGGATTTCTAACCAGCTCCCAG
45549 T G A ACGCCTGGGAGCTGGTTAGAAACGTGGCCTCCAGCCCCGCCTCCG
45549 T A A ACGCCTGGGAGCTGGTTAGAAATGTGGCCTCCAGCCCCGCCTCCG
45549 IS [GA] TTAAAGTGTGAATTCCAATTCAGGGAGGGCGGAGGCGGGGCTGGAGGCCAC[GA]TTTCTAACCAGCTCCCAGGGGTGGGCCTGGTCTGACTAACCAGTTTCAA
45550 I A TGCGGTGACTGTGTAATGCAGGGTACAAAGATAATTATTTGGAAAACTT
45550 P A A CGCGCCCAGGAAAACAAAGAAACAAGTATGCACA
45550 P G A CGCGCCGAGGGAAACAAAGAAACAAGTATGCACA
45550 T A A AGTGTGTGCATACTTGTTCTTTGTTTTAGTTTTCCAAATAATTATCTTTGTACCCTGCATTACACAGTCACCGCACA
45550 T G A AGTGTGTGCATACTTGTTCTTTGTTTCAGTTTTCCAAATAATTATCTTTGTACCCTGCATTACACAGTCACCGCACA
45550 IS [AG] TGTGCGGTGACTGTGTAATGCAGGGTACAAAGATAATTATTTGGAAAACT[AG]AAACAAAGAAACAAGTATGCACACACTTTCTGATATTCCAGGCTCACTGC
45552 I A AACATAGTCATCCTGCAGAAGGATTTCAGTATTTACTATTCAATTACTCCC
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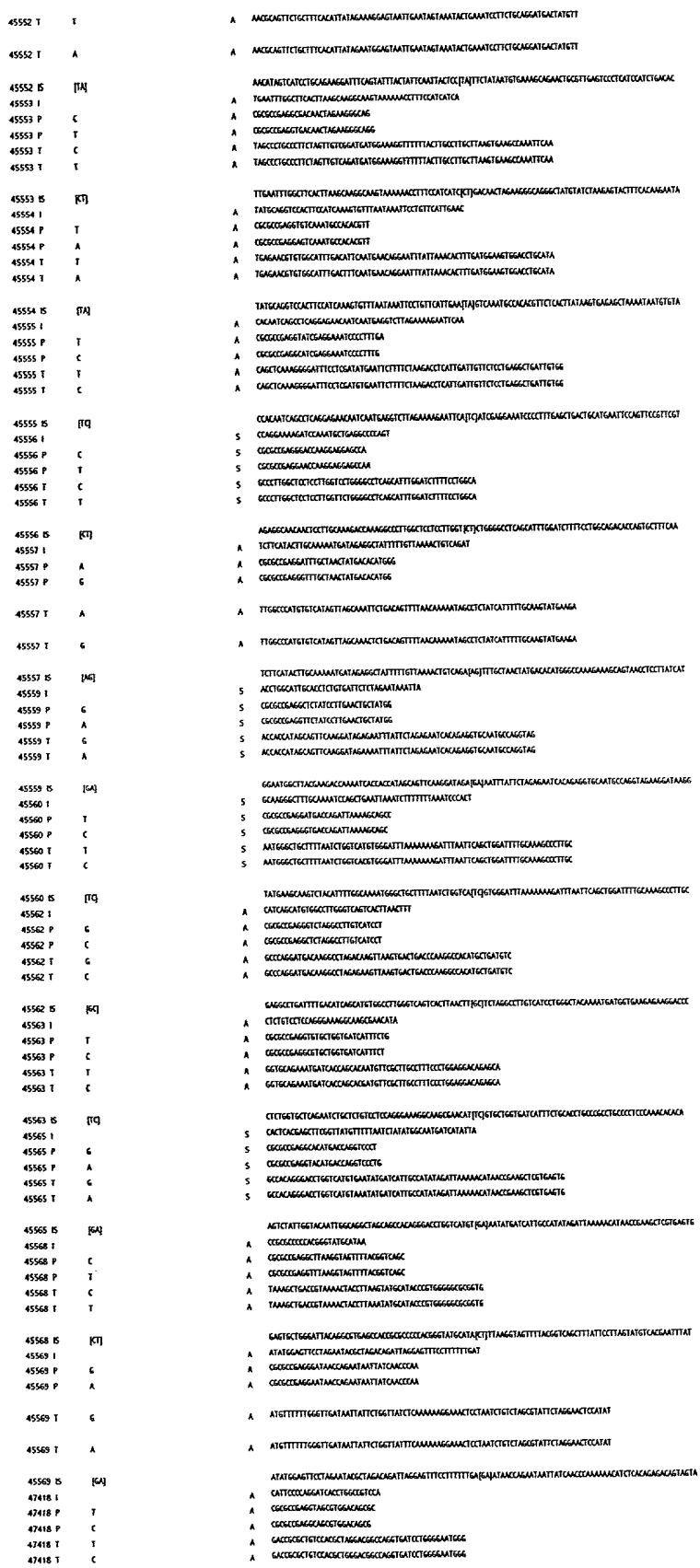


FIGURE 129F

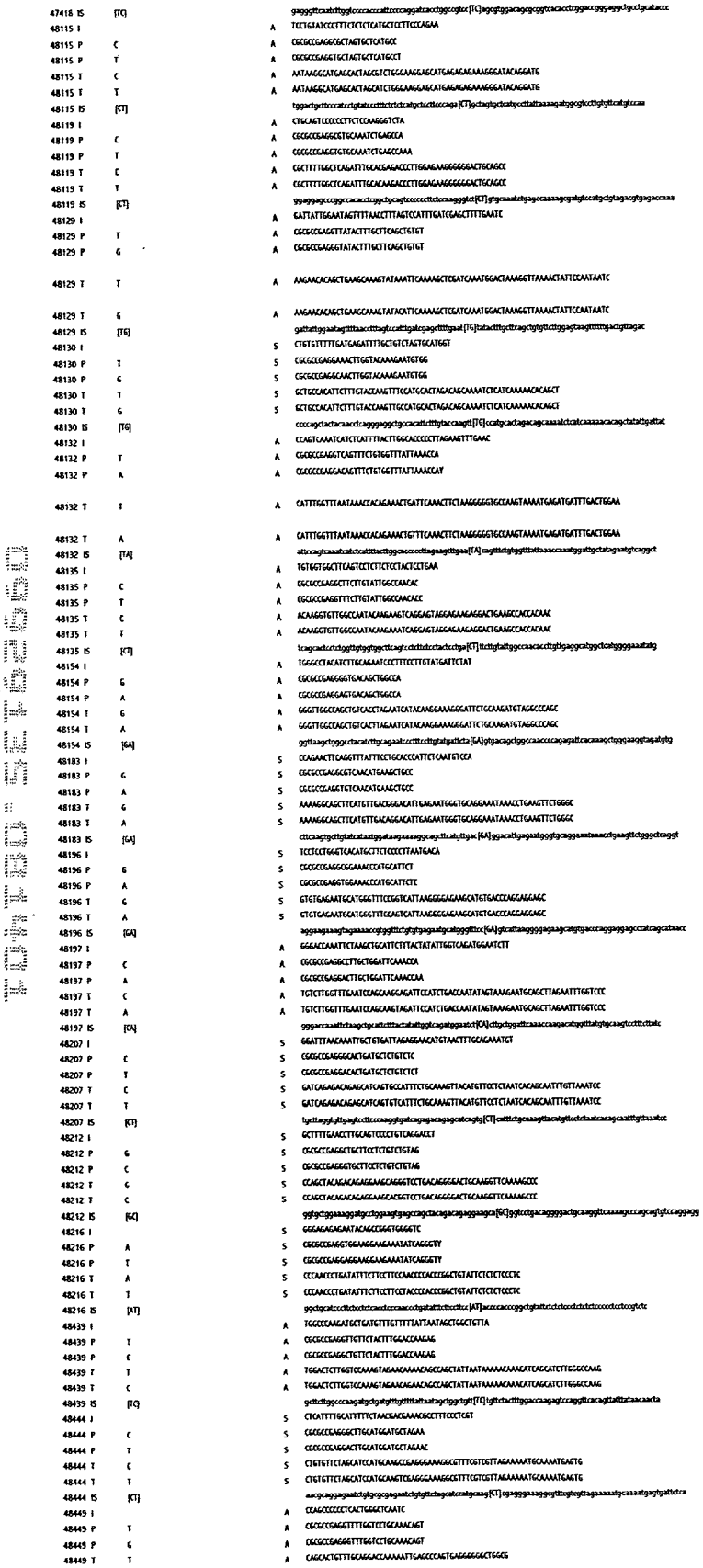


FIGURE 129F

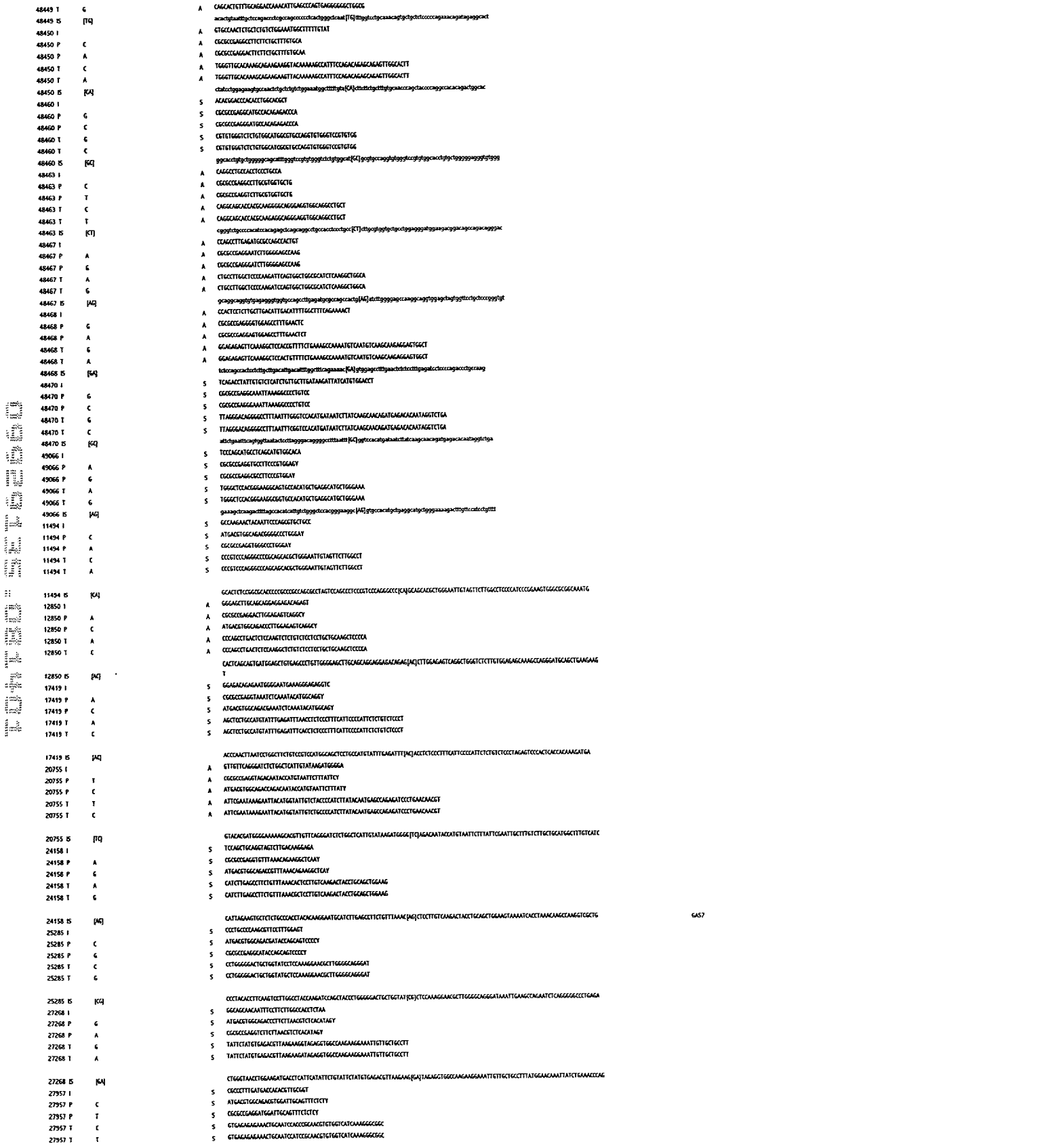


FIGURE 129F

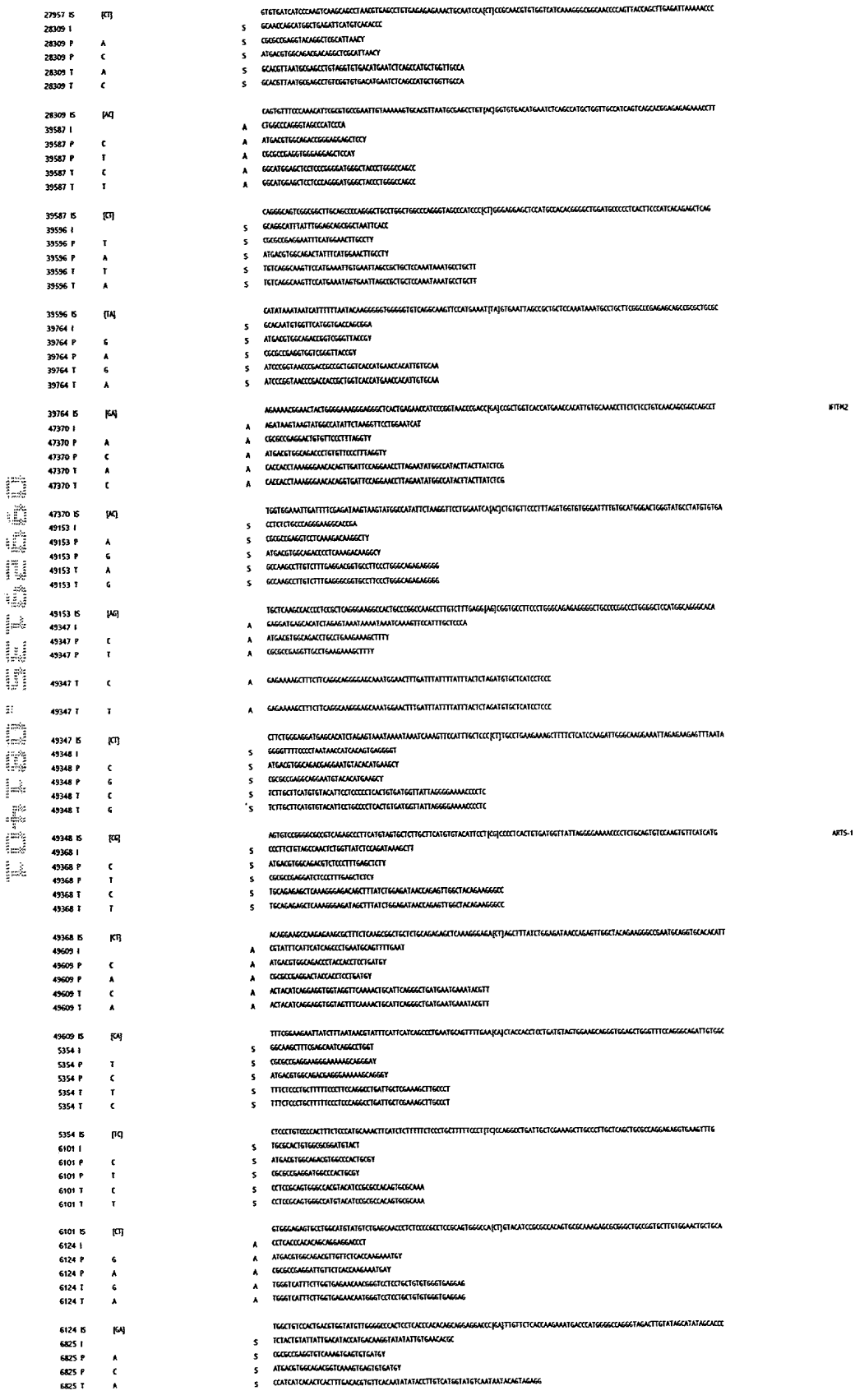


FIGURE 129F

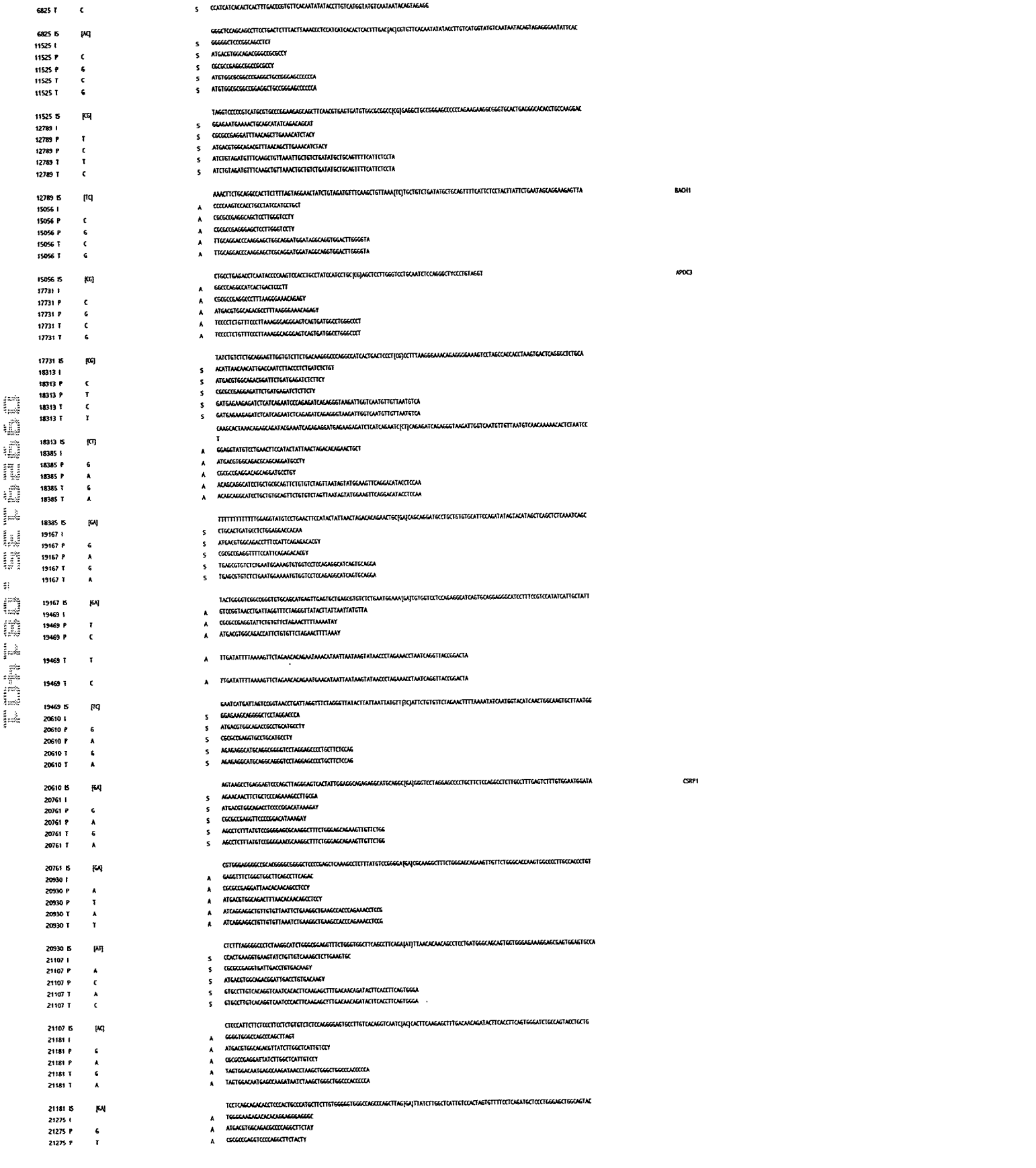

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11525 I
S GGGGGCTCCCGGCAGCCTCT
11525 P C
S ATGACGTGGCAGACGGGCCGCGCCY
11525 P G
S CGCGCCGAGGCGGCCGCGCCY
11525 T C
S ATGTGGCCGCGGCCCGAGGCTGCCGGGCAGCCCCCCA
11525 T G
S ATGTGGCCGCGGCCGAGGCTGCCGGGCAGCCCCCCA
11525 IS [CG]
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12789 I
S GGACAATGAAAACTGCAGCATATCAGACAGCAT
12789 P T
S CGCGCCGAGGATTTAACAGCTTGAAACATCTACY
12789 P C
S ATGACGTGGCAGACGTTTAACAGCTTGAAACATCTACY
12789 T T
S ATCTGTAGATGTTTCAAGCTGTTAAATTGCTGTCTGATATGCTGCAGTTTTCATTCTCCTA
12789 T C
S ATCTGTAGATGTTTCAAGCTGTTAAACTGCTGTCTGATATGCTGCAGTTTTCATTCTCCTA
12789 IS [TC]
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15056 I
A CCCCAAGTCCACCTGCCTATCCATCCTGCT
15056 P C
A CGCGCCGAGGCAGCTCCTTGGGTCCTY
15056 P G
A CGCGCCGAGGGAGCTCCTTGGGTCCTY
15056 T C
A TTGCAGGACCCAAGGAGCTGGCAGGATGGATAGGCAGGTGGACTTGGGGTA
15056 T G
A TTGCAGGACCCAAGGAGCTCGCAGGATGGATAGGCAGGTGGACTTGGGGTA
15056 IS [CG]
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APOC3
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17731 P C
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17731 P G
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17731 T C
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17731 T G
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17731 IS [CG]
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18313 I
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18313 P C
S ATGACGTGGCAGACGGATTCTGATGAGATCTCTTCY
18313 P T
S CGCGCCGAGGAGATTCTGATGAGATCTCTTCTY
18313 T C
S GATGAGAAGAGATCTCATCAGAATCCCAGAGATCAGAGGGTAAGATTGGTCAATGTTGTTAATGTCA
18313 T T
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18313 IS [CT]
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A GGAGGTATGTCCTGAACTTCCATACTATTAACTAGACACAGAACTGT
18385 I
A ATGACGTGGCAGACCCAGCAGGATGCCTY
18385 P G
A CGCGCCGAGGACAGCAGGATGCCTGY
18385 P A
A ACAGCAGGCATCCTGCTGTGCAGTTCTGTGTCTAGTTAATAGTATGGAAGTTCAGGACATACCTCCAA
18385 T G
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18385 T A
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18385 IS [GA]
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19167 I
S CTGCACTGATGCCTCTGGAGGACCACAA
19167 P G
S ATGACGTGGCAGACCTTTCCATTCAGAGACACGY
19167 P A
S CGCGCCGAGGTTTCCATTCAGAGACAGY
19167 T G
S TGAGCGTGTCTCTGAATGGAAAGTGTGGTCCTCCAGAGGCATCAGTGCAGGA
19167 T A
S TGAGCGTGTCTCTGAATGGAAAATGTGGTCCTCCAGAGGCATCAGTGCAGGA
19167 IS [GA]
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19469 I
A GTCCGGTAACCTGATTAGGTTTCTAGGGTTATACTTATTAATTATGTTA
19469 P T
A CGCGCCGAGGTATTCTGTGTTCTAGAACTTTTAAAATAY
19469 P C
A ATGACGTGGCAGACCATTCTGTGTTCTAGAACTTTTAAAY
19469 T T
A TTGATATTTTAAAAGTTCTAGAACACAGAATAAACATAATTAATAAGTATAACCCTAGAAACCTAATCAGGTTACCGGACTA
19469 T C
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19469 IS [TC]
GAATCATGATTAGTCCGGTAACCTGATTAGGTTTCTAGGGTTATACTTATTAATTATGTT[TC]ATTCTGTGTTCTAGAACTTTTAAAATATCAATGGTACATCAACTGGCAAGTGCTTAATGG
20610 I
S GGAGAAGCAGGGGCTCCTAGGACCCA
20610 P G
S ATGACGTGGCAGACTGCCTGCATGCCTY
20610 P A
S CGCGCCGAGGTGCCTGCATGCCTY
20610 T G
S AGAGAGGCATGCAGGCGGGGTCCTAGGAGCCCCTGCTTCTCCAG
20610 T A
S AGAGAGGCATGCAGGCAGGGTCCTAGGAGCCCCTGCTTCTCCAG
20610 IS [GA]
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CSRP1
20761 I
S AGAACAACTTCTGCTCCCAGAAAGCCTTGCGA
20761 P G
S ATGACGTGGCAGACCTCCCCGGACATAAAGAY
20761 P A
S CGCGCCGAGGTTCCCCGGACATAAAGAY
20761 T G
S AGCCTCTTTATGTCCGGGGAAGCGCAAGGCTTTCTGGGAGCAGAAGTTGTTCTGG
20761 T A
S AGCCTCTTTATGTCCGGGGAAGCCAAGGCTTTCTGGGAGCAGAAGTTGTTCTGG
20761 IS [GA]
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20930 I
A GAGGTTTCTGGGTGGCTTCAGCCTTCAGAC
20930 P A
A CGCGCCGAGGATTAACACAACAGCCTCCY
20930 P T
A ATGACGTGGCAGACTTTAACACAACAGCCTCCY
20930 T A
A ATCAGGAGGCTGTTGTGTTAATCTGAAGGCTGAAGCCACCCAGAAACTCCG
20930 T T
A ATCAGGAGGCTGTTGTGTTAATCTGAAGGCTGAAGCCACCCAGAAACTCCG
20930 IS [AT]
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21107 I
S CCACTGAAGGTGAAGTATCTGTGTCAAAGCTCTTGAAGTGC
21107 P A
S CGCGCCGAGGTGATTGACCTGTGACAAGY
21107 P C
S ATGACGTGGCAGACGGATTGACCTGTGACAAGY
21107 T A
S GTGCCTTGTCACAGGTCAATCACACTTCAAGAGCTTTGACAACAGATACTTCACCTTCAGTGGGA
21107 T C
S GTGCCTTGTCACAGGTCAATCCCACTTCAAGAGCTTTGACAACAGATACTTCACCTTCAGTGGGA
21107 IS [AC]
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21181 I
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21181 P G
A ATGACGTGGCAGACGTTATCTTGGCTCATTGTCCY
21181 P A
A CGCGCCGAGGATTATCTTGGCTCATTGTCCY
21181 T G
A TAGTGGACAATGAGCCAAGATAACCTAAGCTGGGCTGGCCCACCCCCA
21181 T A
A TAGTGGACAATGAGCCAAGATAATCTAAGCTGGGCTGGCCCACCCCCA
21181 IS [GA]
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21275 I
A TGGGGAAGAGACACACAGGAGGGAGGGC
21275 P G
A ATGACGTGGCAGAGCCCCAGGCTTCTAY
21275 P T
A CGCGCCGAGGTCCCCAGGCTTCTACTY

FIGURE 129F

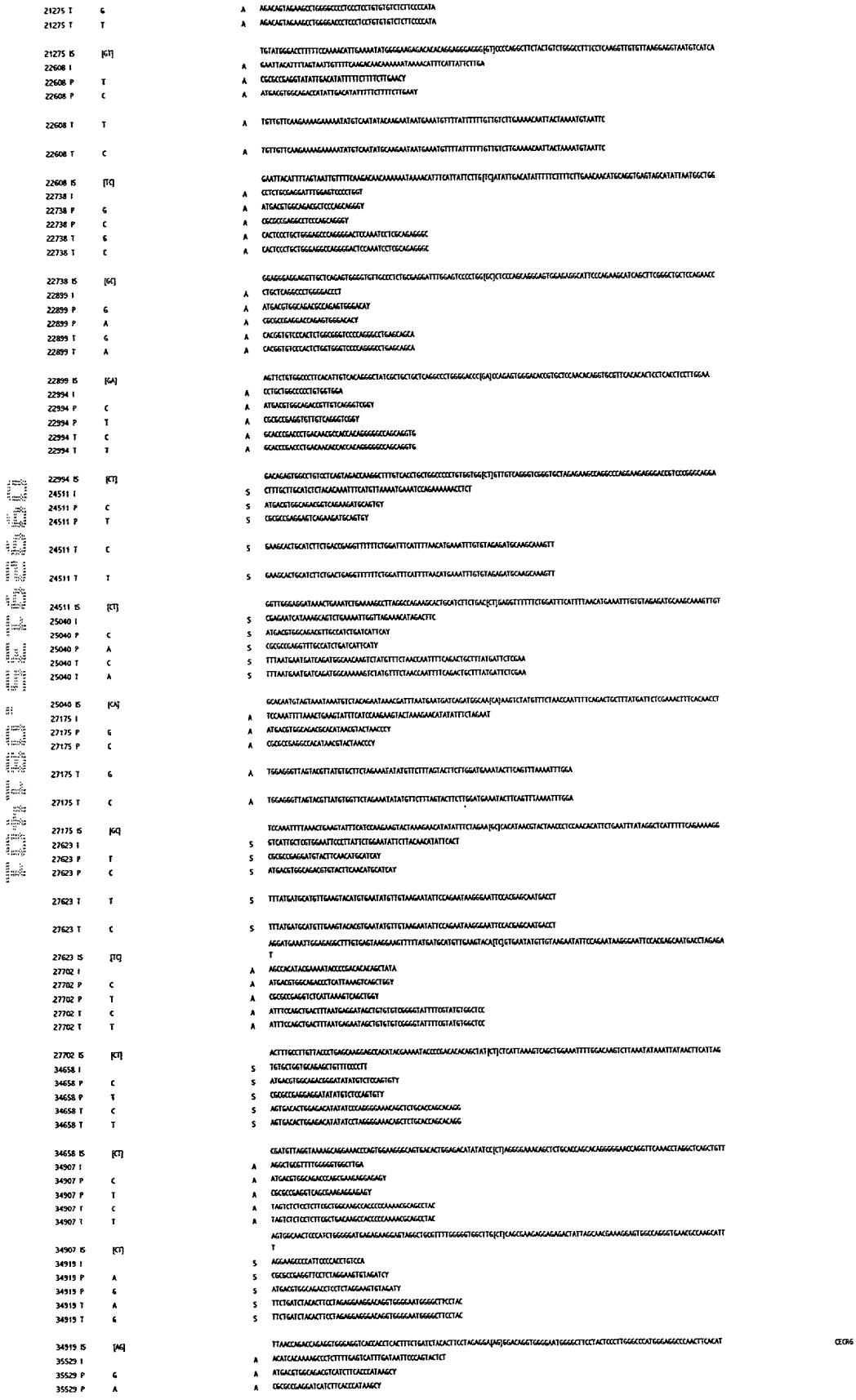


FIGURE 129F

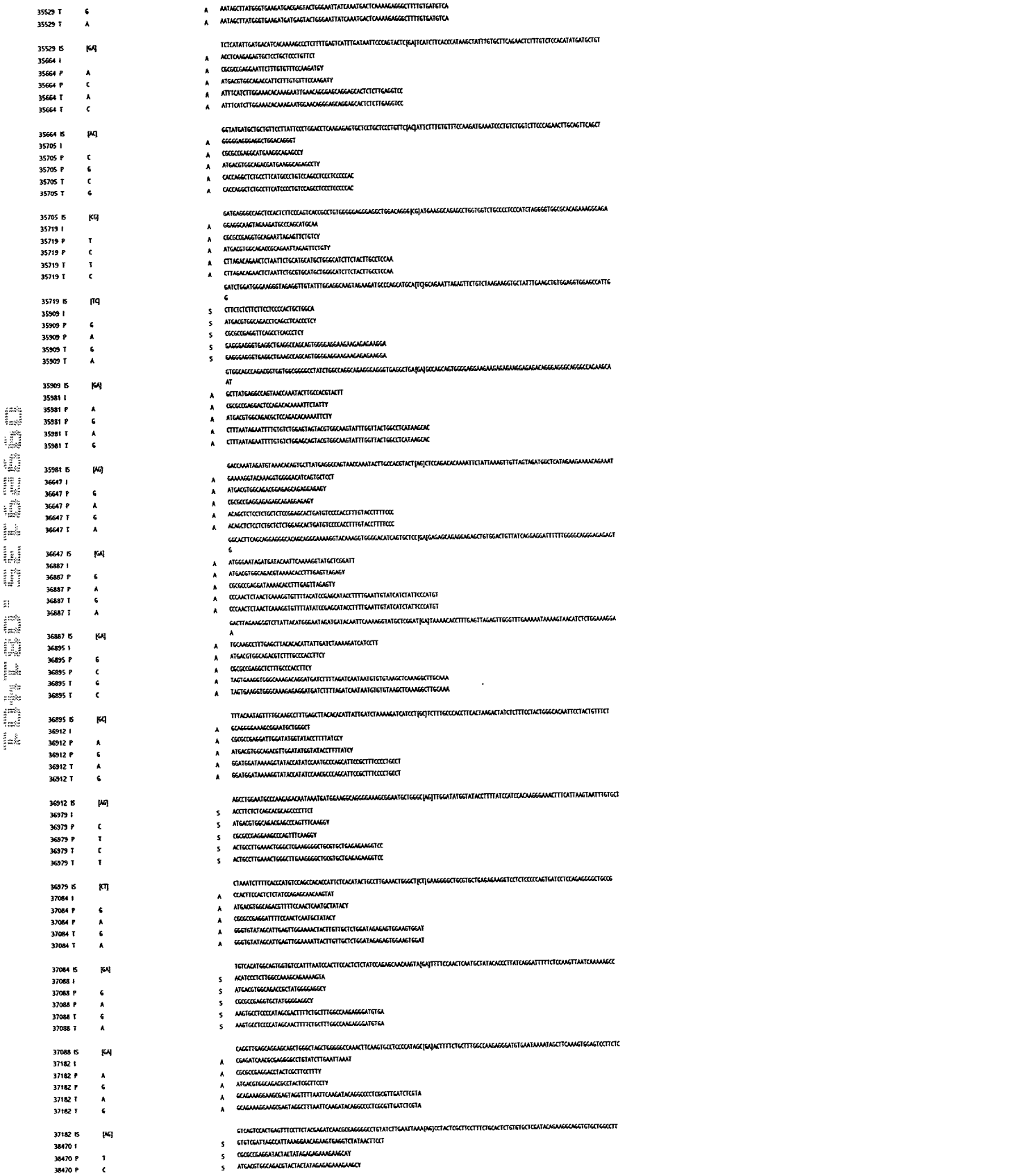


FIGURE 129F

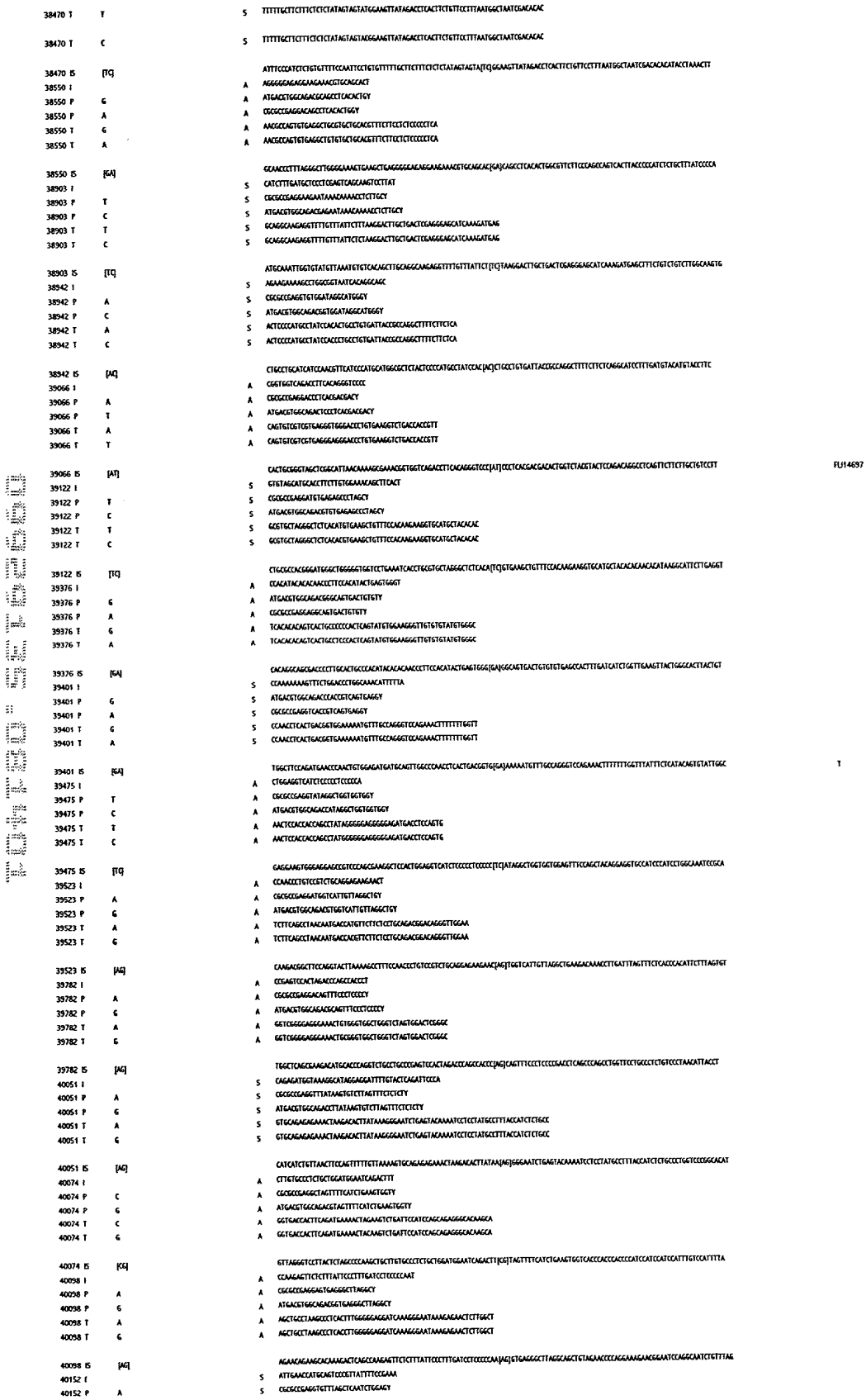


FIGURE 129F

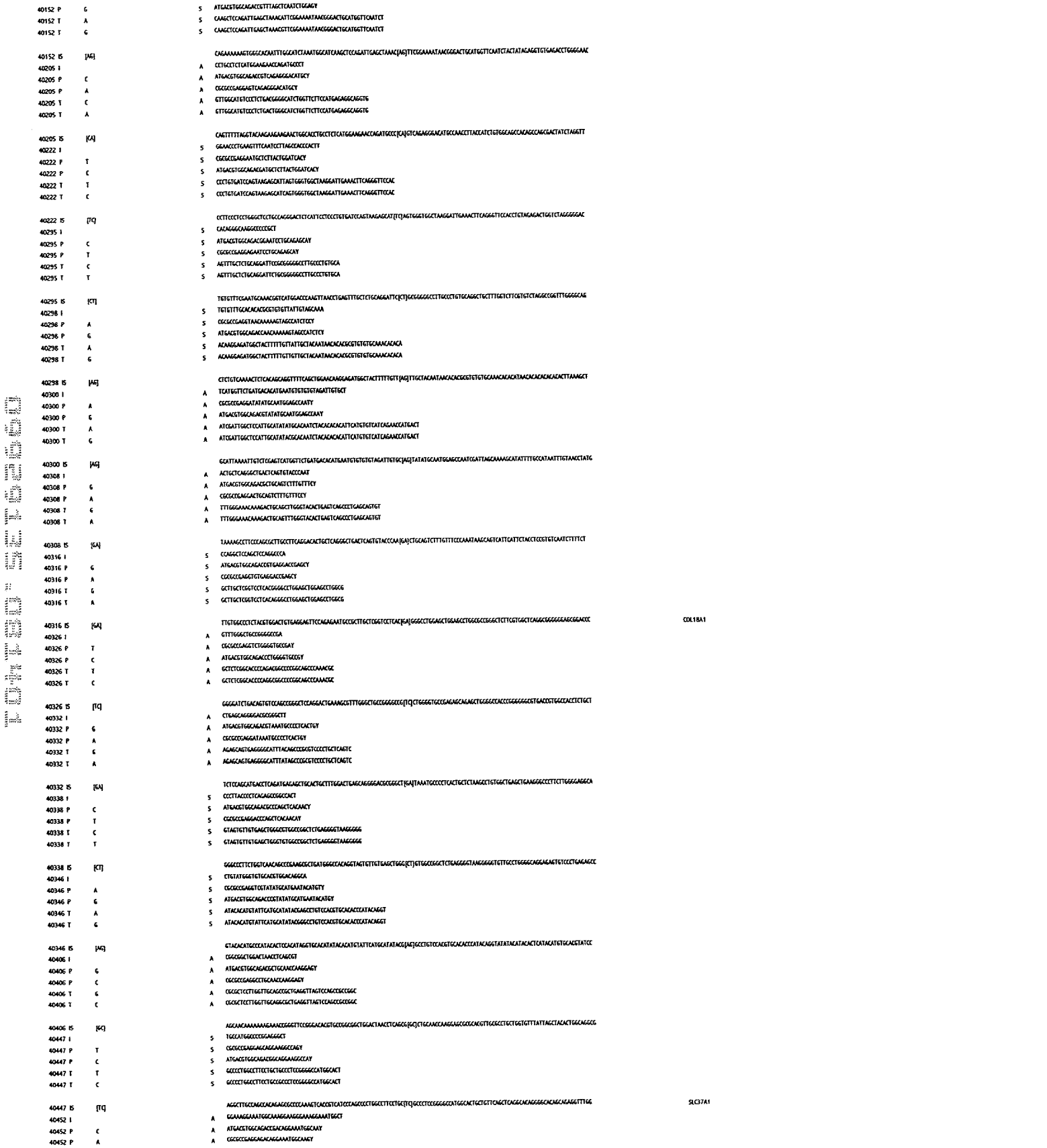


FIGURE 129F

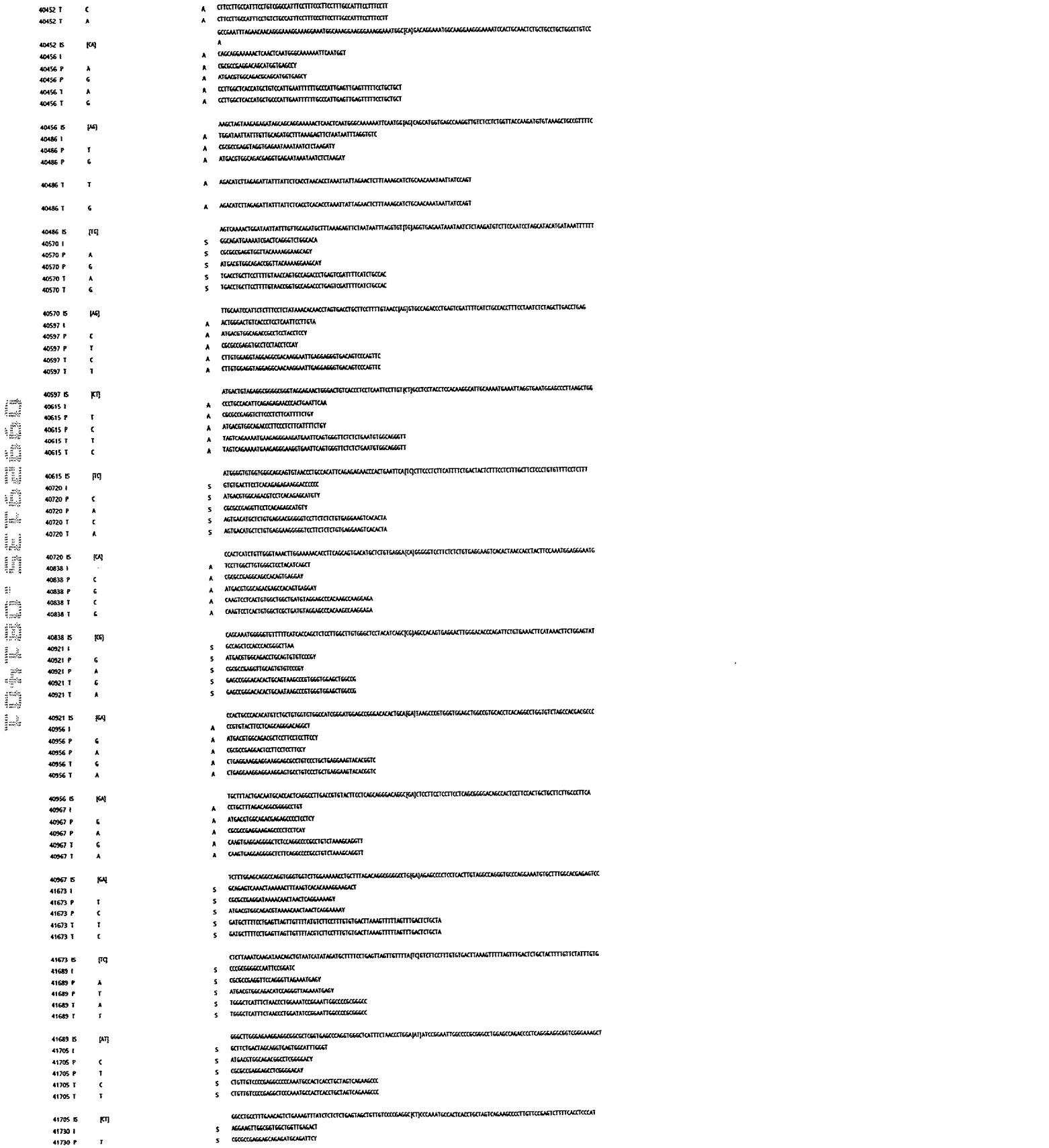
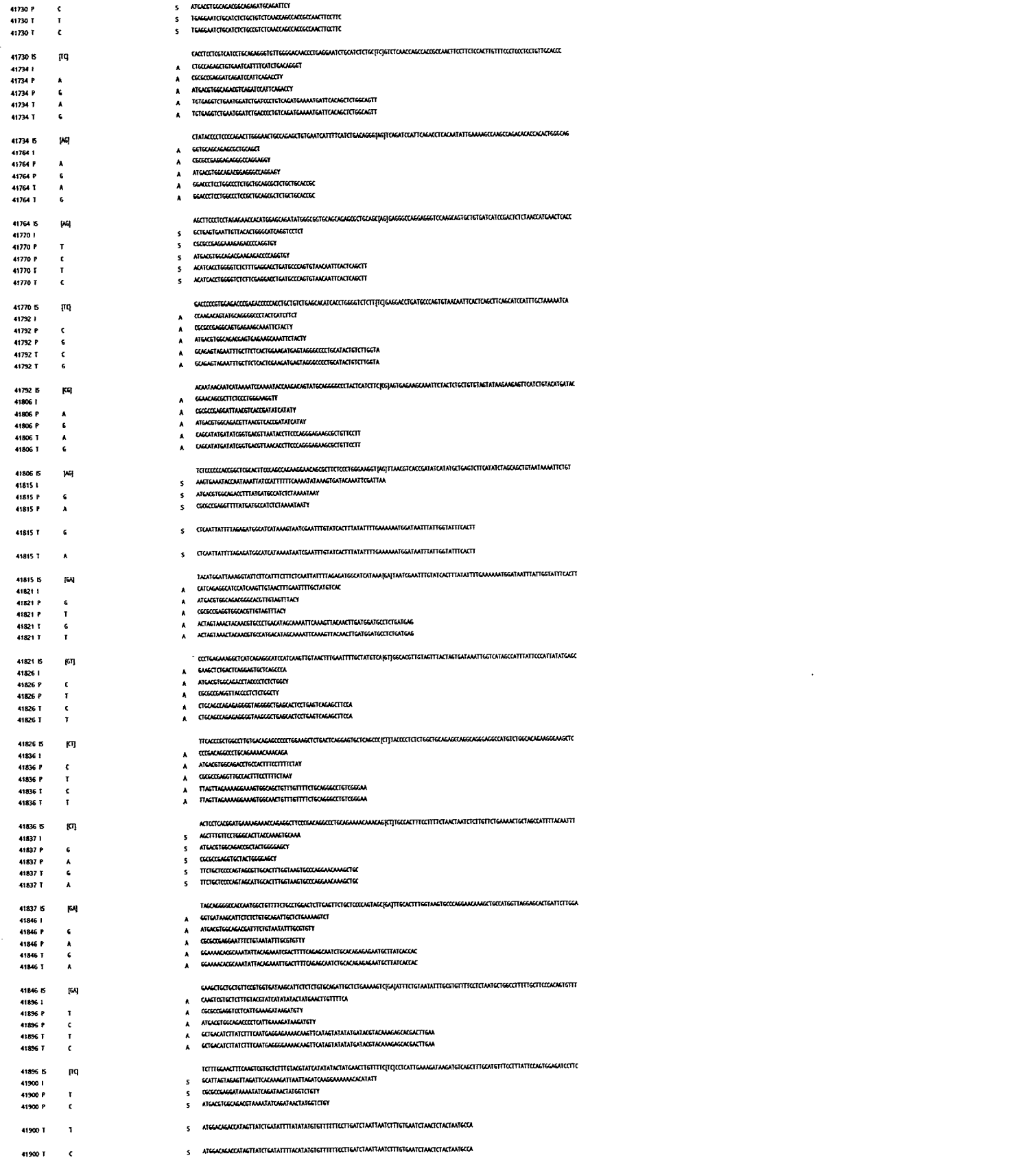


FIGURE 129F



Attorney Docket No. 10020.0001U2

FIGURE 129F

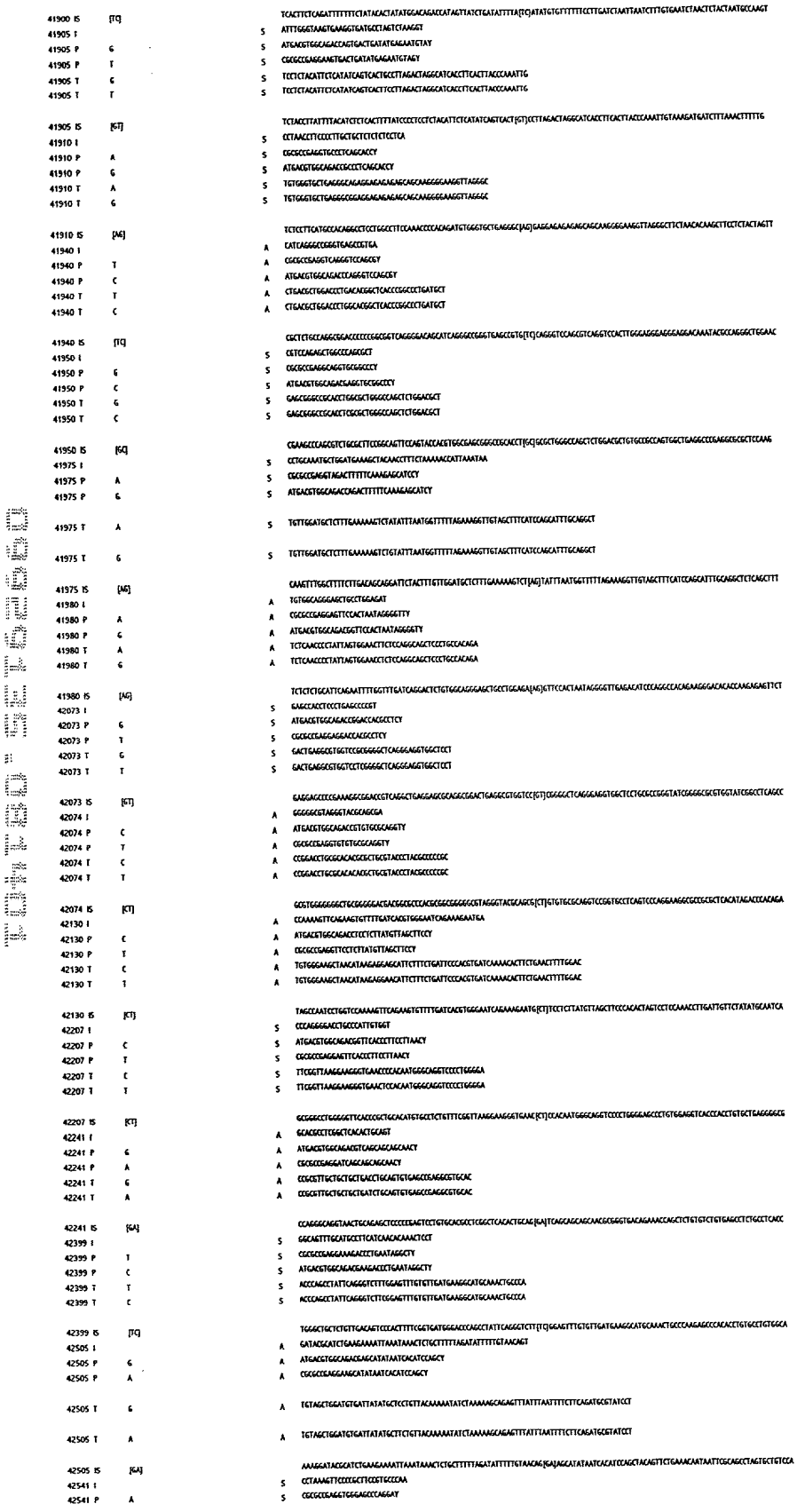


FIGURE 129F

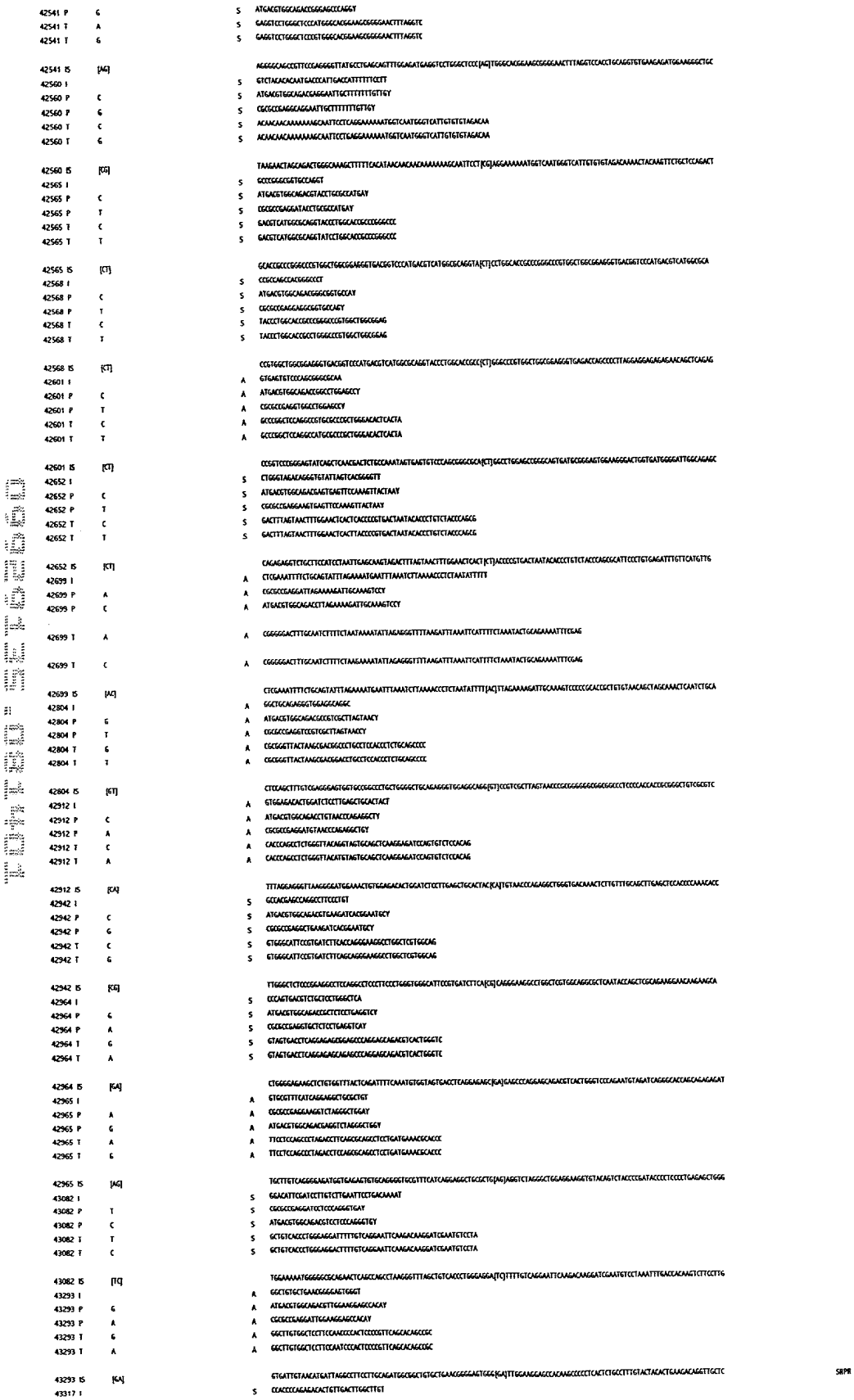


FIGURE 129F

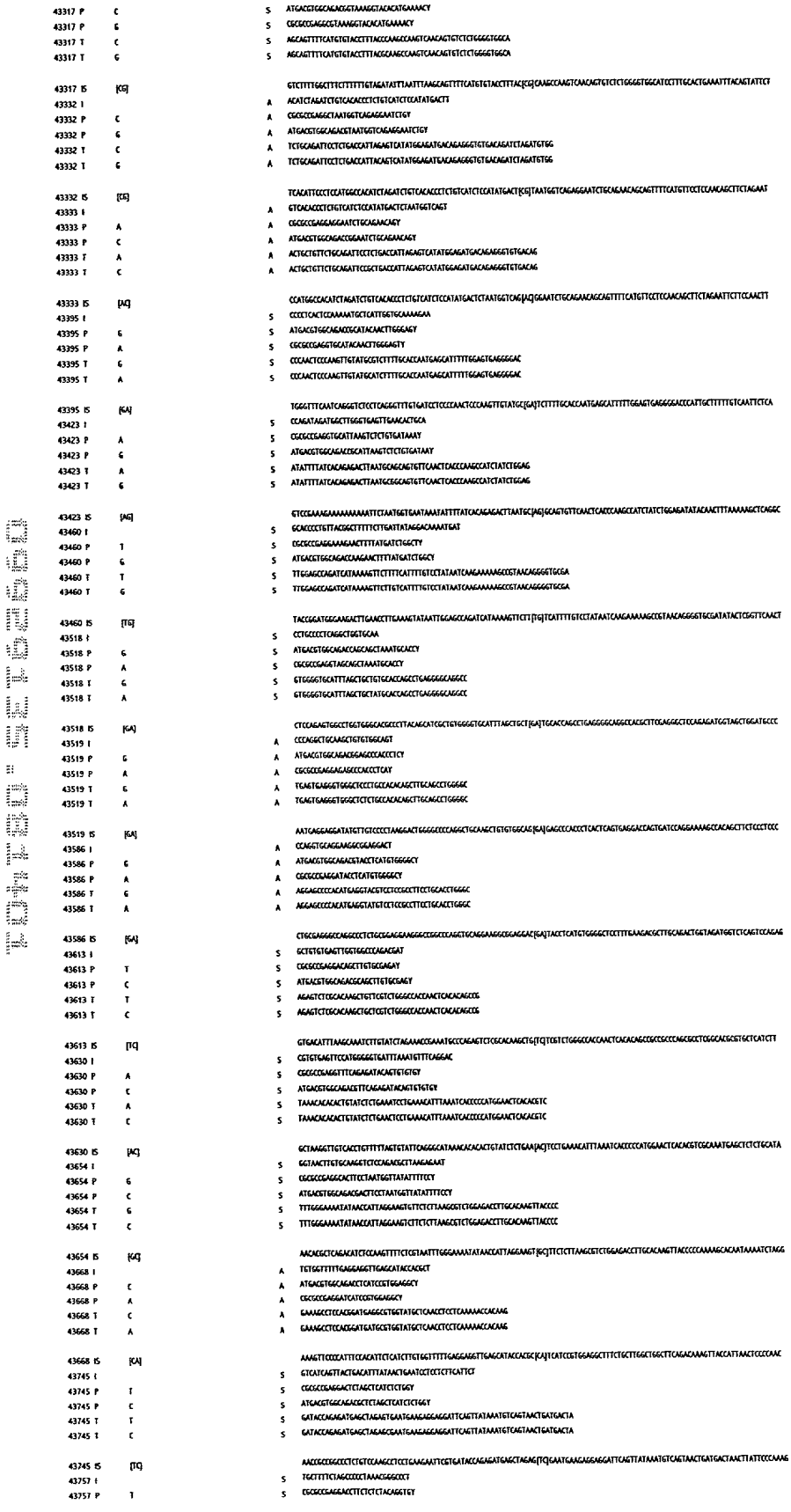

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43332 I A ACATCTAGATCTGTCACACCCTCTGTCATCTCCATATGACTT
43332 P C A CGCGCCGAGGCTAATGGTCAGAGGAATCTGY
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43332 T G A TCTGCAGATTCCTCTGACCATTACAGTCATATGGAGATGACAGAGGGTGTGACAGATCTAGATGTGG
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43423 P A S CGCGCCGAGGTGCATTAAGTCTCTGTGATAAAY
43423 P G S ATGACGTGGCAGACGCATTAAGTCTCTGTGATAAAY
43423 T A S ATATTTTATCACAGAGACTTAATGCAGCAGTGTTCAACTCACCCAAGCCATCTATCTGGAG
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43518 I S CCTGCCCCTCAGGCTGGTGCAA
43518 P G S ATGACGTGGCAGACCAGCAGCTAAATGCAACCY
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43518 T G S GTGGGGTGCATTTAGCTGCTGTGCACCAGCCTGAGGGGCAGGCC
43518 T A S GTGGGGTGCATTTAGCTGCTATGCACCAGCCTGAGGGGCAGGCC
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43519 I A CCCAGCGTGCAAGCTGTGTGGCAGT
43519 P G A ATGACGTGGCAGACGAGCCCACCCTCY
43519 P A A CGCGCCGAGGAGAGCCCACCTCAY
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43519 T A A TGAGTGAGGGTGGGCTCTCTGCCACACAGCTTGCAGCCTGGGGC
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43586 I A CCAGGTGCAGGAAGGCGGAGGACT
43586 P G A ATGACGTGGCAGACGTACCTCATGTGGGGCY
43586 P A A CGCGCCGAGGATACCTCATGTGGGGCY
43586 T G A AGGAGCCCCACATGAGGTACGTCCTCCGCCTTCCTGCACCTGGGC
43586 T A A AGGAGCCCCACATGAGGTATGTCCTCCGCCTTCCTGCACCTGGGC
43586 IS [GA] CTGCGAGGGCCAGGCCCTCTGCGGAGGAAGGGCCGGCCCAGCTGCAGGAAGGCGGAGGAGJGAJTACCTCATGTGGGGCTCCTTTGAAGACGCTTGCAGACTGATAGATGGTCTCAGTCCAGAG
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43613 P T S CGCGCCGAGGACAGCTTGTGCGAGAY
43613 P C S ATGACGTGGCAGACGCAGCTTGTGCGAGY
43613 T T S AGAGTCTGCACAAGCTGTTGCTCTGGGCCACCAACTCACACAGCCG
43613 T C S AGAGTCTGCACAAGCTGCTCGTCTGGGCCACCAACTCACACAGCCG
43613 IS [TC] GTGACATTTAAGCAAATCTTGTATCTAGAAACCGAAATGCCCAGAGTCTCGCACAAGCTGTJTCJTCGTCCACCAACTCACACAGCCGCCGCCCAGCGCCTCGGCACGCGTGCTCATCTT
43630 I S CGTGTGAGTTCCATGGGGGTGATTTAAATGTTTCAGGAC
43630 P A S CGCGCCGAGGTTTCAGAGATACAGTGTGTGY
43630 P C S ATGACGTGGCAGACGTTCAGAGATACAGTGTGTGY
43630 T A S TAAACACACACTGTATCTCTGAAATCCTGAAACATTTAAATCACCCCATGGAACTCACACGTC
43630 T C S TAAACACACACTGTATCTCTGAACTCCTGAAACATTTAAATCACCCCATGGAACTCACACGTC
43630 IS [AC] GCTAAGGTTGTCACCTGTTTTTAGTGTATTCAGGGCATAAACACACACTGTATCTCTGAAJACJTCCTGAAACATTTAAATCACCCCATGGAACTCACAGTGCGCAAATGAGCTCTCTGCATA
43654 I S GGTAACTTGTGCAAGGTCTCCAGAGCGTTAAGAGAAT
43654 P G S CGCGCCGAGGCACTTCCTAATGGTTATATTTTCCY
43654 P C S ATGACGTGGCAGACGACTTCCTAATGGTTATATTTTCCY
43654 T G S TTTGGGAAAATATAACCATTAGGAAGTGTTCTCTTAAGGGTCTGGAGACCTTGCACAAGTTACCCC
43654 T C S TTTGGGAAAATATAACCATTAGGAAGTCTTCTCTTAAGCGTCTGGAGACCTTGCACAAGTTACCCC
43654 IS [GC] AACAGCTCAGACATCTCCAAGTTTTCTCGTAATTTGGGAAAATATAACCATTAGGAAGTJGCJTTCTCTTAAGCGTCTGGAGACCTTGCACAAGTTACCCCCAAAAGCACAATAAAATCTAGG
43668 I A TGTGGTTTTTGAGGAGGTTGAGCATACCACGCT
43668 P C A ATGACGTGGCAGACCTCATCCGTGGAGGCY
43668 P A A CGCGCCGAGGATCATCCGTGGAGGCY
43668 T C A GAAAGCCTCCACGGATGAGGCGTGGTATGCTCAACCTCCTCAAAAACCACAAG
43668 T A A GAAAGCCTCCACGGATGATGCGTGGTATGCTCAACCTCCTCAAAAACCACAAG
43668 IS [CA] AAAGTTCCCCATTTCCACATTCTCATCTTGTGGTTTTTGAGGAGGTTGAGCATACCACGCJCAJTCATCCGTGGAGGCTTTCTGCTTGGCTGGCTTCAGACAAAGTTACCATTAACTCCCCAAC
43745 I S GTCATCAGTTACTGACATTTATAACTGAATCCTCCTCTTCATTCT
43745 P T S CGCGCCGAGGACTCTAGCTCATCTCTGGY
43745 P C S ATGACGTGGCAGACGCTCTAGCTCATCTCTGGY
43745 T T S GATACCAGAGATGAGCTAGAGTGAATGAAGAGCAGGATTCAGTTATAAATGTCAGTAACTGATGACTA
43745 T C S GATACCAGAGATGAGCTAGAGCGAATGAAGAGCAGGATTCAGTTATAAATGTCAGTAACTGATGACTA
43745 IS [TC] AACCCCCGCCCCTCTGTCCAAGCCTCCTGAAGAATTCGTGATACCAGAGATGAGCTAGAGJTCJCAATGAAGAGGAGGATTCAGTTATAAATGTCAGTAACTGATGACTAACTTATTCCCAAAG
43757 I S TGCTTTTCTAGCCCCCTAAACGGGCCCT
43757 P T S CGCGCCGAGGAACCTTCTCTCTACAGGTGY

FIGURE 129F

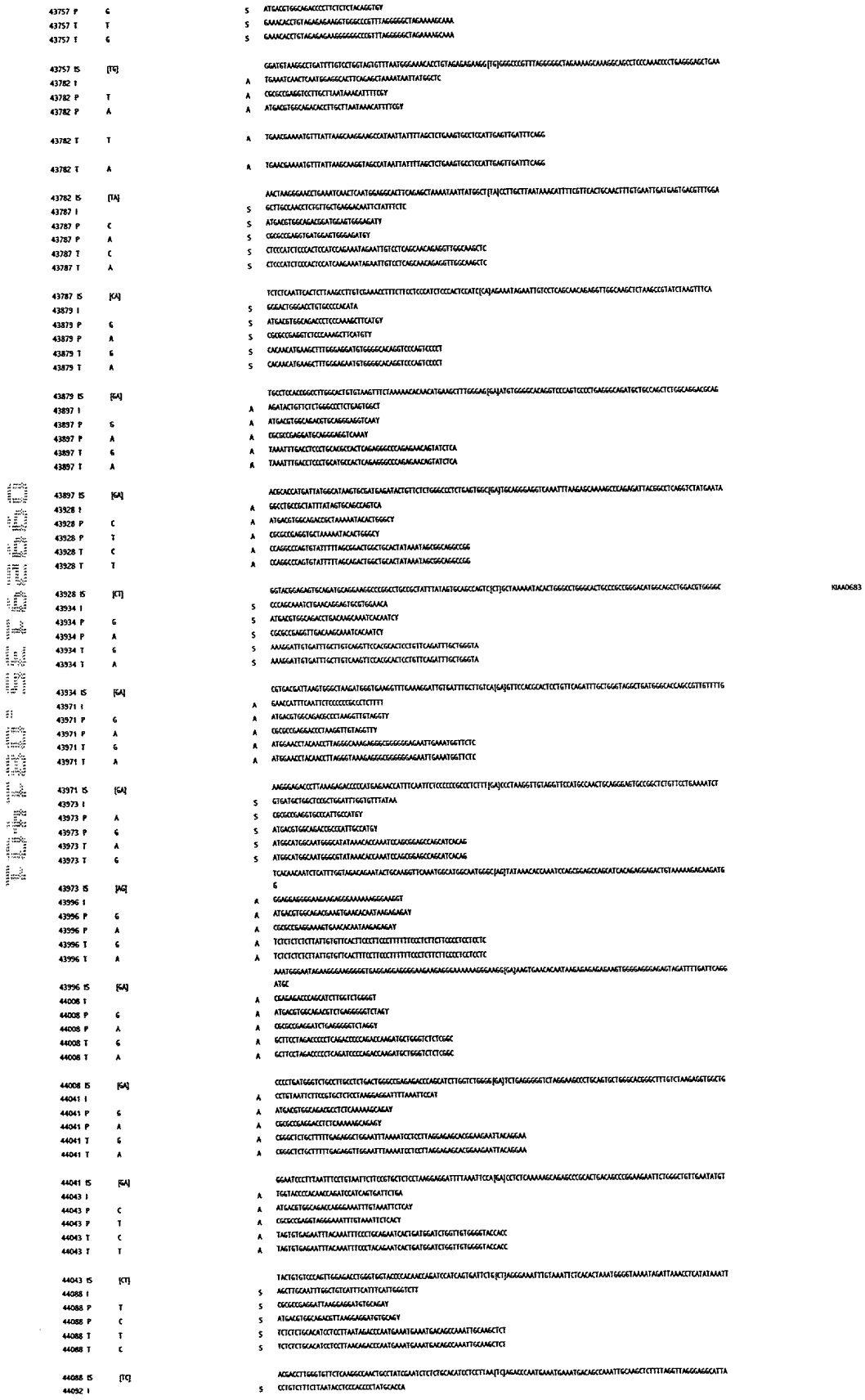


FIGURE 129F

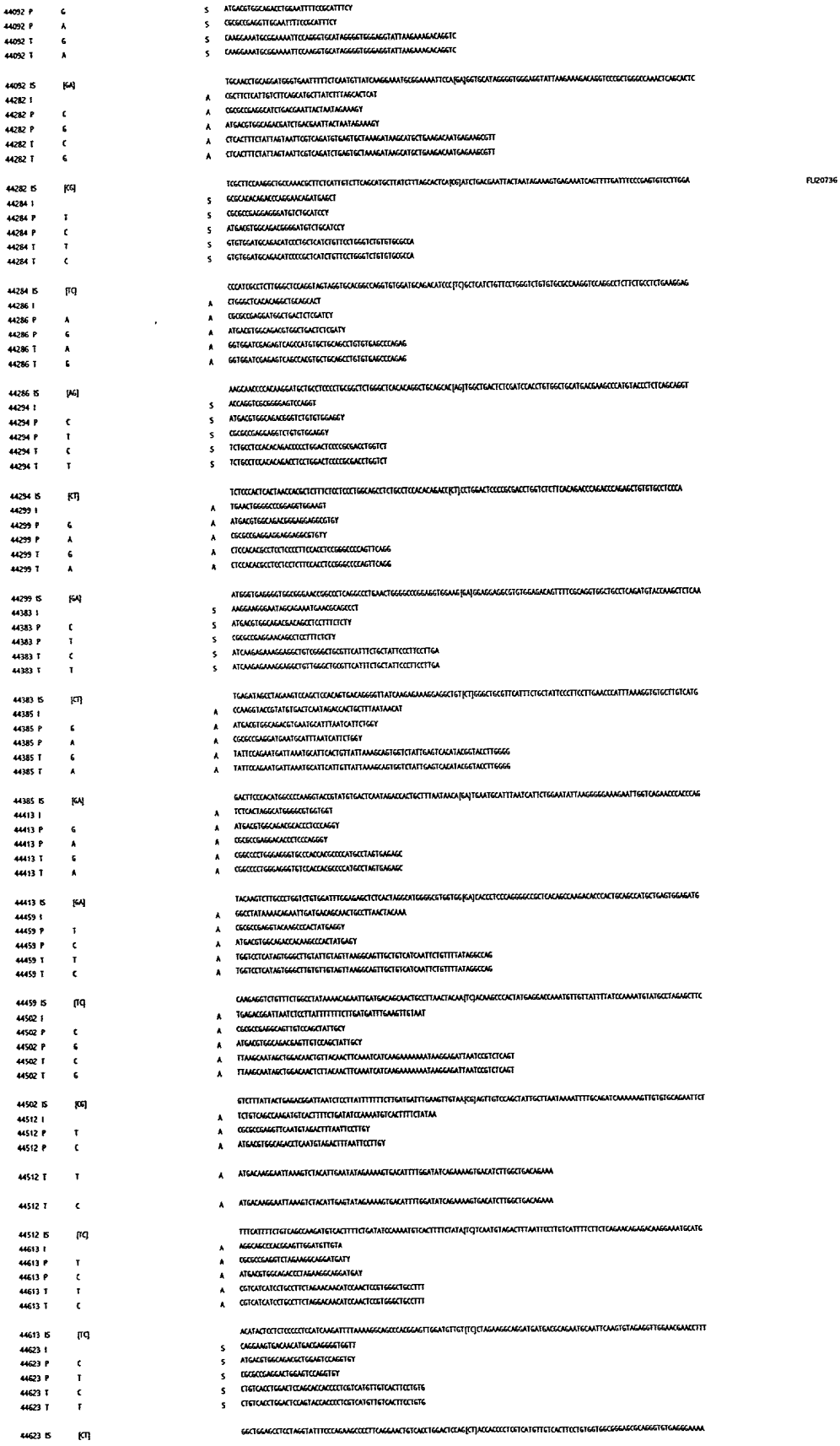


FIGURE 129F

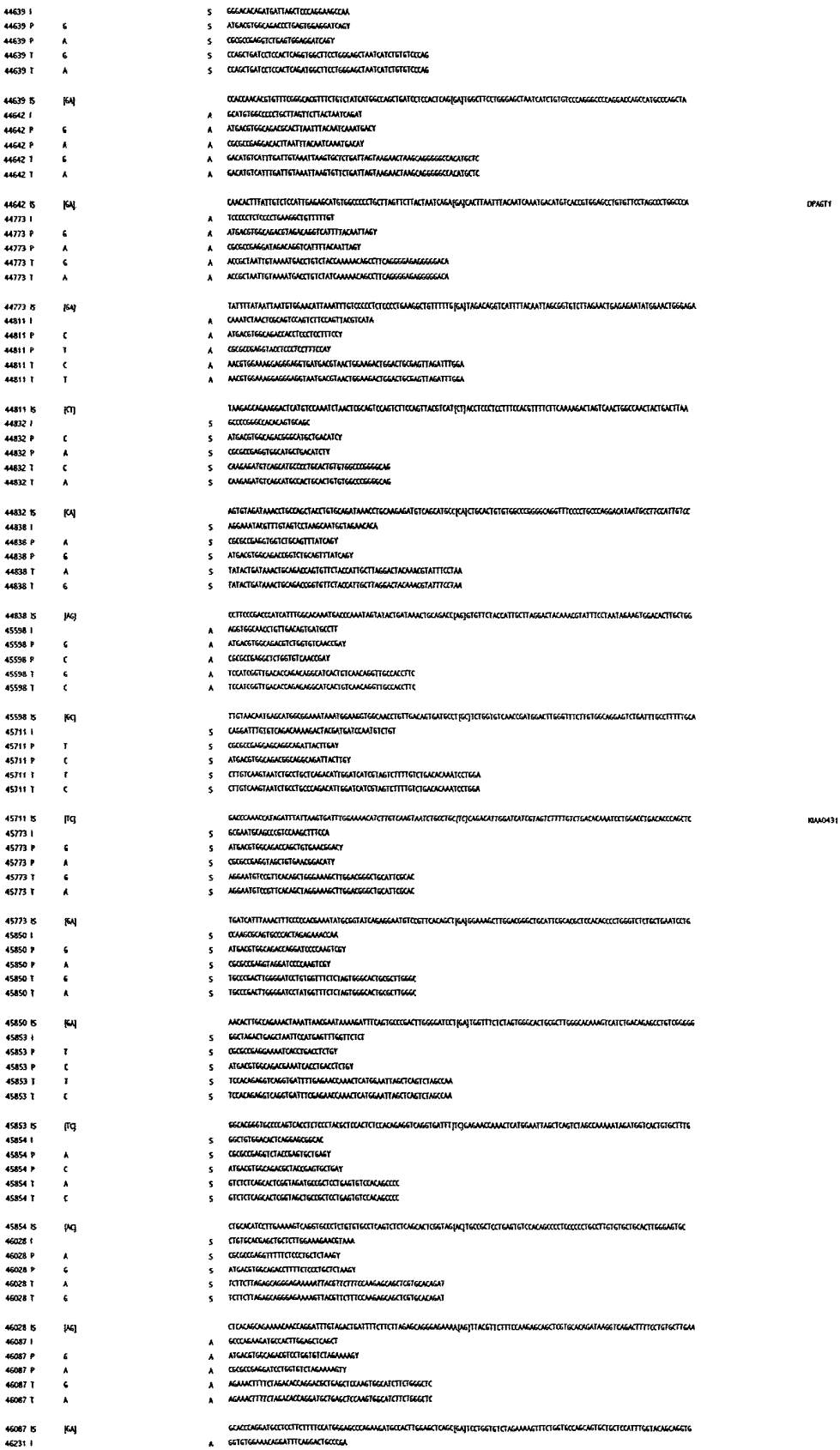


FIGURE 129F

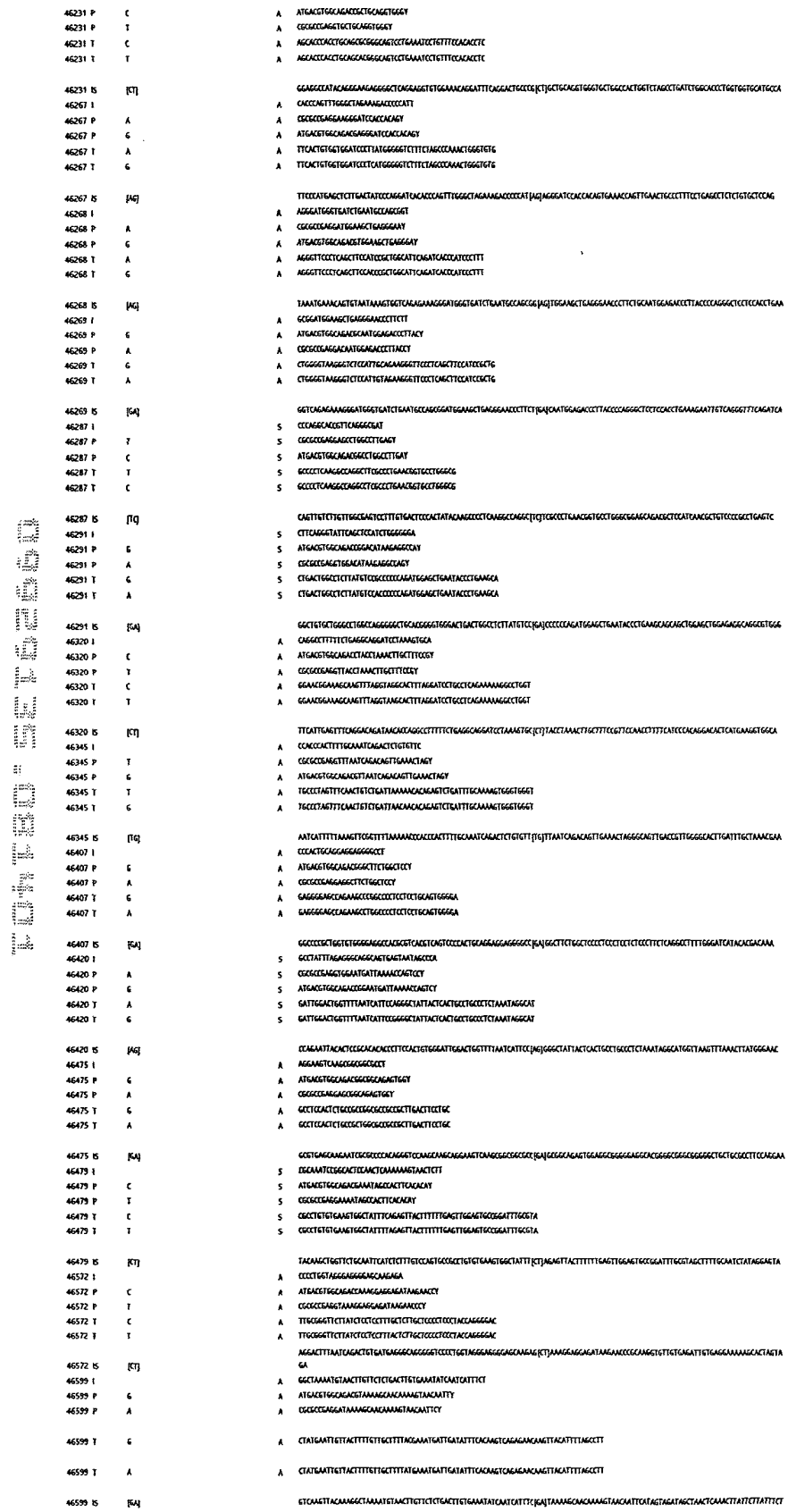

46231 P C A ATGACGTGGCAGACCGCTGCAGGTGGGY
46231 P T A CGCGCCCAGGTGCTGCAGGTGGGY
46231 T C A AGCACCCACCTGCAGCGCGGGCAGTCCTGAAATCCTGTTTCCACACCTC
46231 T T A AGCACCCACCTGCAGCACGGGCAGTCCTGAAATCCTGTTTCCACACCTC
46231 IS [CT] GGAGGCCATACAGGGAAGAGGGGCTCAGGAGGTGTGGAAACAGGATTTCAGGACTGCCCG[CT]GCTGCAGGTGGGTGCTGGCCACTGGTCTAGCCTGATCTGGCACCCTGGTGGTGCATGCCA
46267 I A CACCCAGTTTGGGGCTAGAAAGACCCCCATT
46267 P A A CGCGCCGAGGAAGGGATCCACCACAGY
46267 P G A ATGACGTGGCAGACGAGGGATCCACCACAGY
46267 T A A TTCACTGTGGTGGATCCCTTATGGGGGTCTTTCTAGCCCAAACTGGGTGTG
46267 T G A TTCACTGTGGTGGATCCCTCATGGGGGTCTTTCTAGCCCAAACTGGGTGTG
46267 IS [AG] TTCCCATGAGCTCTTGACTATCCCAGGATCACACCCAGTTTGGGCTAGAAAGACCCCCATA[AG]AGGGATCCACCACAGTGAAACCAGTTGAACTGCCCTTTCCTGAGCCTCTCTGTGCTCCAG
46268 I A AGGGATGGGTGATCTGAATGCCAGCGGT
46268 P A A CGCGCCAGGATGGAAGCTGAGGGAAY
46268 P G A ATGACGTGGCAGACGTGGAAGCTGAGGGAY
46268 T A A AGGGTCCCTCAGCTTCCATCCGCTGGCATTCAGATCACCCATCCCTTT
46268 T G A AGGGTTCCCTCAGCTTCCACCCGCTGGCATTCAGATCACCCATCCCTTT
46268 IS [AG] TAAATGAAACAGTGTAATAAAGTGCTCAGAGAAAGGGATGGGTGATCTGAATGCCAGCGG[AG]TGGAAGCTCAGGGAACCCTTCTGCAATGCAGACCCTTACCCCAGGGCTCCTCCACCTGAA
46269 I A GCGGATGGAAGCTGAGGGAACCCTTCTT
46269 P G A ATGACGTGGCAGAGCAATGGAGACCCTTACY
46269 P A A CGCGCCAGGACAATGGAGACCCTTACCY
46269 T G A CTGGGGTAAGGGTCTCCATTGCAGAAGGGTTCCCTCAGCTTCCATCCGCTG
46269 T A A CTGGGGTAAGGGTCTCCATTGTAGAAGGGTTCCCTCAGCTTCCATCCGCTG
46269 IS [GA] GGTCAGAGAAAGGGATGGGTGATCTGAATGCCAGCGGATGGAAGCTGAGGGAACCCTTCT[GA]CAATGCAGACCCTTACCCCAGGGCTCCTCCACCTGAAAGAATTGTCAGGGTTTCAGATCA
46287 I S CCCAGGCACCGTTCAGGGCGAT
46287 P T S CGCGCCGAGGAGCCTGGCCTTGAGY
46287 P C S ATGACGTGGCAGACGGCCTGGCCTTGAY
46287 T T S GCCCCTCAAGGCCAGGCTTCGCCCTCGAACGGTGCCTGGGCG
46287 T C S GCCCCTCAAGGCCAGGCCTCGCCCTGAACGGTGCCTGGGCG
46287 IS [TC] CAGTTGTCTGTTGTTGGCGAGTCCTTTGTGACTCCCACTATACAAGCCCTCAAGGCCAGGC[TC]TCGCCCTGAACGGTGCCTGGGCGGAGCAGAGCTCCATCAACGCTGTCCCCGCCTGAGTC
46291 I S CTTCAGGGTATTCAGCTCCATCTGGGGGGA
46291 P G S ATGACGTGGCAGACGGGACATAAGAGCCAY
46291 P A S CGCGCCGAGGTGGACATAAGAGCCAGY
46291 T G S CTGACTGGCTCTTATGTCGCCCCCCAGATGGAGCTGAATACCCTGAAGCA
46291 T A S CTGACTGGCTCTTATGTCCACCCCCAGATGGAGCTGAATACCCTGAAGCA
46291 IS [GA] GGCTGTGCTGGGCCTGGCCAGGGGGCTGCACGGGGTGGGACTGACTGGCCTCTTATGTCC[GA]CCCCCCAGATGGAGCTGAATACCCTGAAGCAGCAGCTGGAGCTGGAGAGGCAGGCGTGGG
46320 I A CAGGCTTTTCTGAGGCAGGATCCTAAAGTGCA
46320 P C A ATGACGTGGCAGACCTACCTAAACTTGCTTTCCGY
46320 P T A CGCGCCGAGGTTACCTAAACTTGCTTTCCGY
46320 T C A GGAACGGAAAGCAAGTTTAGGTAGGCACTTTAGGATCCTGCCTCAGAAAAAGGCCTGGT
46320 T T A GGAACGGAAAGCAAGTTTAGGTAAGCACTTTAGGATCCTGCCTCAGAAAAAGGCCTGGT
46320 IS [CT] TTCATTGAGTTTCAGGACAGATAACACCAGGCCTTTTTCTGAGGCAGGATCCTAAAGTGC[CT]TACCTAAACTTGCTTTCCGTTCCAACCTTTTCATCCCACAGGACACTCATGAAGGTGGCA
46345 I A CCACCCACTTTTGCAAATCAGACTCTGTGTTC
46345 P T A CGCGCCGAGGTTTAATCAGACAGTTGAAACTAGY
46345 P G A ATGACGTGGCAGACGTTAATCAGACAGTTGAAACTAGY
46345 T T A TGCCCTAGTTTCAACTGTCTGATTAAAAACACAGAGTCTGATTTGCAAAGTGGGTGGGT
46345 T G A TGCCCTAGTTTCAACTGTCTGATTAACAACACAGAGTCTGATTTGCAAAGTGGGTGGGT
46345 IS [TG] AATCATTTTTAAAGTTCGGTTTTAAAAACCCACCCACTTTGCAAATCAGACTCTGTGTT[TG]TTAATCAGACAGTTGAAACTAGGGCAGTTGACCGTTGGGGCACTTGATTTGCTAAACGAA
46407 I A CCCACTGCAGCAGGAGGGGCCT
46407 P G A ATGACGTGGCAGACGGCTTCTGGCTCCY
46407 P A A CGCGCCGAGGAGGCTTCTGGCTCCY
46407 T G A GAGGGGAGCCAGAAGCCCGGCCCCTCCTCCTGCAGTGGGGA
46407 T A A GAGGGGAGCCAGAAGCCTGGCCCCTCCTCCTGCAGTGGGGA
46407 IS [GA] GGCCCCGCTGGGTGTGGGGAGGCCAGCGCTCAGGTCAGTCCCCACTGCAGGAGGAGGGGCC[GA]GGCTCCTGGCTCCCCTCCCTCCTCCTTCTCAGGCCTTTTGGGATCATACACGACAAA
46420 I S GCCTATTTAGAGGGCAGGCAGTGAETAATAGCCCA
46420 P A S CGCGCCGAGGTGGAATGATTAAAACCAGTCCY
46420 P G S ATGACGTGGCAGACCGGCTTCTGGCTCCY
46420 T A S GATTGGACTGGTTTTAATCATTCCAGGGCTATTACTCACTGCCTGCCCTCTAAATAGGCAT
46420 T G S GATTGGACTGGTTTTAATCATTCCGGGGCTATTACTCACTGCCTGCCCTCTAAATAGGCAT
46420 IS [AG] CCAGAATTACACTCCGCACACACCCTTCCACTGTGGGATTGGACTGGTTTTAATCATTCC[AG]GGGCTATTACTCACTGCCTGCCCTCTAAATAGGCATGGTTAAGTTTAAACTTATGGGAAC
46475 I A AGGAAGTCAAGCGGCGGCCCCT
46475 P G A ATGACGTGGCAGACGGCGGCAGAGTGGY
46475 P A A CGCGCCGAGGACGGCAGAGTGGY
46475 T G A GCCTCCACTCTGCCGCCGGCGCCCCGCTTGACTTCCTGC
46475 T A A GCCTCCACTCTGCCGCTGGCGCCCCGCTTGACTTCCTGC
46475 IS [GA] GCGTGAGCAAGAATCGCGCCCCACAGGGTCCAAGCAAGCAGGAAGTCAAGCGGCGGCGGC[GA]GCGGCAGAGTGGAGGCGGGGAGGCACGGGGCGGCGGGGGCTGCTGCGCCTTCCAGGAA
46479 I S CGCAAATCCGGCACTCCAACTCAAAAAGTAACTCTT
46479 P C S ATGACGTGGCAGACGAAATAGCCACTTCACACAY
46479 P T S CGCGCCGAGGAAAATAGCCACTTCACACAY
46479 T C S CGCCTGTGTGAAGTGGCTATTTCAGAGTTACTTTTTTGAGTTGGAGTGCCGGATTTGCGTA
46479 T T S CGCCTGTGTGAAGTGGCTATTTTAGAGTTACTTTTTTGAGTTGGAGTGCCGGATTTGCGTA
46479 IS [CT] TACAAGCTGGTTCTGCAATTCATCTCTTTGTCCAGTGCGCCTGTGTGAAGTGGCTATTT[CT]AGAGTTACTTTTTTGAGTTGGAGTGCCGGATTTGCGTAGCTTTGCAATCTATAGGAGTA
46572 I A CCCCTGGTAGGGAGGGGAGCAAGAGA
46572 P C A ATGACGTGGCAGACCAAGGAGCAGATAAGAACCY
46572 P T A CGCGCCGAGGTAAAGGAGCAGATAAGAACCY
46572 T C A TTGCGGGTTCTTATCTCCTCCTTGCTCTTGCTCCCCTCCCTACCAGGGGAC
46572 T T A TTGCGGGTTCTTATCTCCTCCTTTACTCTTGCTCCCCTCCCTACCAGGGGAC
46572 IS [CT] AGGACTTTAATCAGACTGTGATGAGGGCAGCGGGGTCCCCTGGTAGGGAGGGGAGCAAGAG[CT]AAAGGAGCAGATAAGAACCCGCAAGGTGTTGTGAGATTGTGAGGAAAAAGCACTAGTA
GA
46599 I A GGCTAAAATGTAACTTGTTCTCTGACTTGTGAAATATCAATCATTTCT
46599 P G A ATGACGTGGCAGACGTAAAGGCAACAAAAGTAACAATTY
46599 P A A CGGCCGAGGATAAAGCAACAAAAGTAACAATTCY
46599 T G A CTATGAATTGTTACTTTTGTTGCTTTTAGAAATGATTGATATTTCACAAGTCAGAGAACAAGTTACATTTTAGCCTT
46599 T A A CTATGAATTGTTACTTTTGTTGCTTTTATGAAATGATTGATATTTCACAAGTCAGAGAACAAGTTACATTTTAGCCTT
46599 IS [GA] GTCAAGTTACAAAGGCTAAAATGTAACTTGTTCTCTGACTTGTGAAATATCAATCATTTC[GA]TAAAGCAACAAAAGTAACAATTCATAGTAGATAGCTAACTCAAACTTATTCTTATTTCT

FIGURE 129F

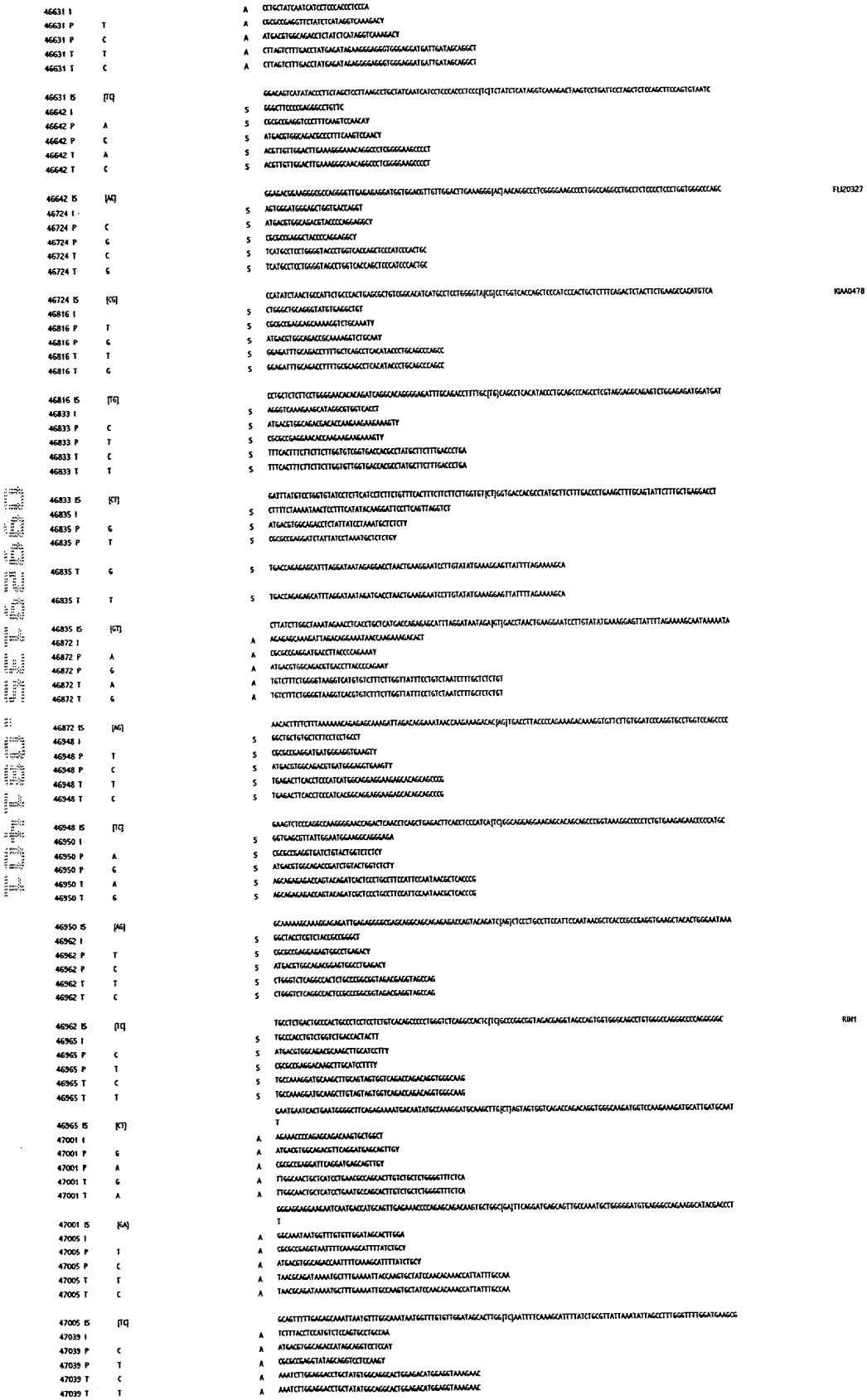


FIGURE 129F

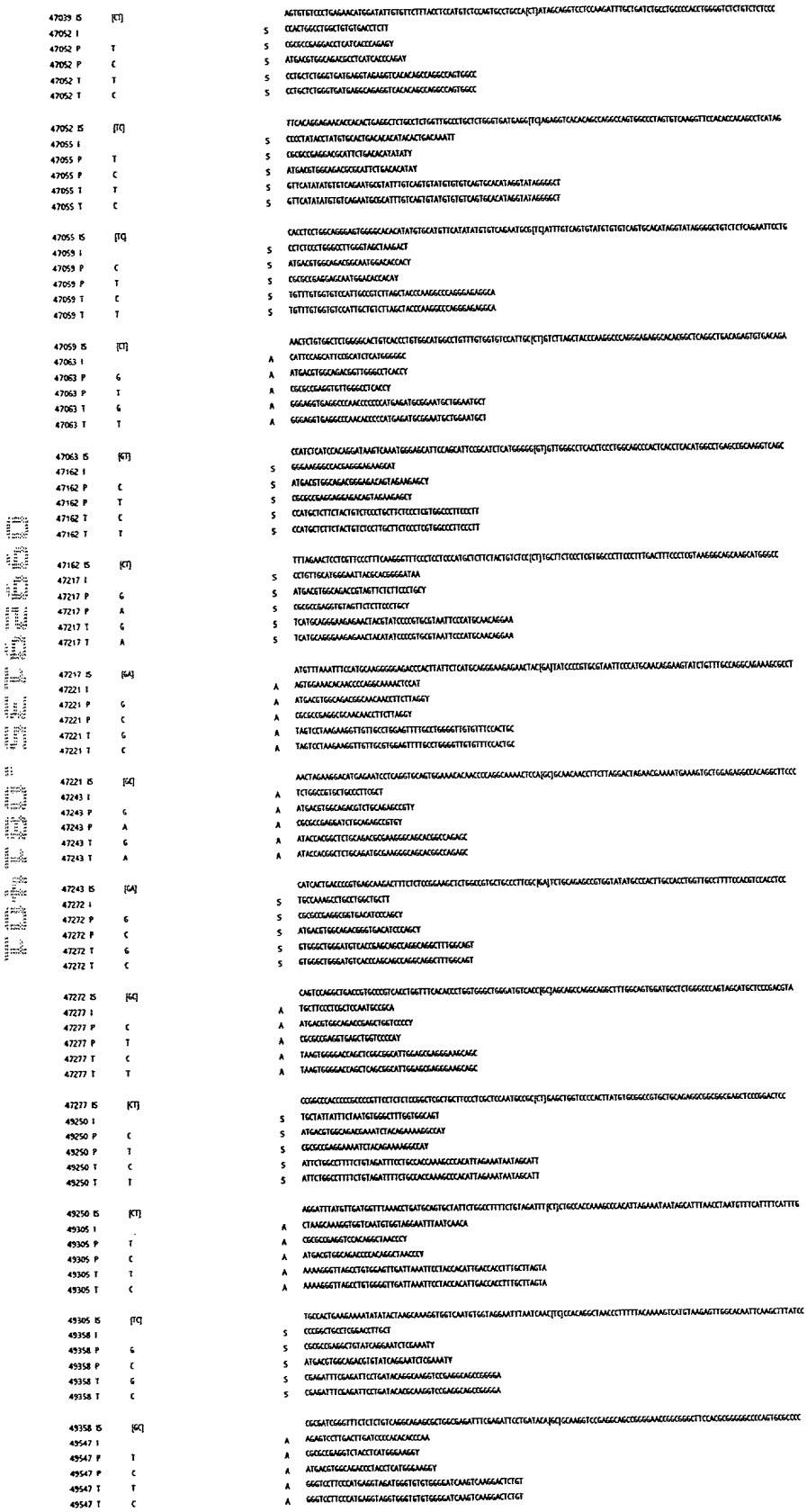

47039 IS [CT] AGTGTGTCCCTGAGAACATGGATATTGTGTTCTTTAACCTCCATGTCTCCAGTGCCTGCCA[CT]ATAGCAGGTCCTCCAAGATTTGCTGATCTGCCTGCCCCACCTGGGGTCTCTGTCTCTCCC
47052 I S CCACTGGCCTGGCTGTGTGACCTCTT
47052 P T S CGCGCCGAGGACCTCATCACCCAGAGY
47052 P C S ATGAGGTGGCAGACGCCTCATCACCCAGAY
47052 T T S CCTGCTCTGGGTGATGAGGCAGAGGTCACACAGCCAGGCCAGTGGCC
47052 T C S CCTGCTCTGGGTGATGAGGCAGAGGTCACACAGCCAGGCCAGTGGCC
47052 IS [TC] FTCACAGGAGAACACCACACTGAGGCCTCTGCCTCTGGTTGCCCTGCTCTGGGTGATGAGG[TC]AGAGGTCACACAGCCAGGCCAGTGGCCCTAGTGTCAAGGTTCCACACCACAGCCTCATAG
47055 I S CCCCTATACCTATGTGCACTGACACACATACACTGACAAATT
47055 P T S CGCGCCGAGGACGCATTCTGACACATATATY
47055 P C S ATGAGGTGGCAGACGCGCAATTCTGACACATAT
47055 T T S GTTCATATATGTGTCAGAATGCGTATTTGTCAGTGTATGTGTGTCAGTGCACATAGGTATAGGGGCT
47055 T C S GTTCATATATGTGTCAGAATGCGCATTTGTCAGTGTATGTGTGTCAGTGCACATAGGTATAGGGGCT
47055 IS [TC] CACCTCCTGGCAGGGAGTGGGGCACACATATGTGCATGTTCATATATGTGTCAGAATGCG[TC]ATTTGTCAGTGTATGTGTGTCAGTGCACATAGGTATAGGGGCTGTCTCTCAGAATTCCTG
47059 I S CCTCTCCCTGGGCCTTGGGTAGCTAAGACT
47059 P C S ATGACGTGGCAGACGGCAATGGACACCACY
47059 P T S CGCGCCGAGGAGCAATGGACACCACAY
47059 T C S TGTTTGTGGTGTCCATTGCCGTCTTAGCTACCCAAGGCCCAGGGAGAGGCA
47059 T T S TGTTTGTGGTGTCCATTGCTGTCTTAGCTACCCAAGGCCCAGGGAGAGGCA
47059 IS [CT] AACTCTGTGGCTCTGGGGCACTGTCACCCTGTGGCATGGCCTGTTTGTGGTGTCCATTGC[CT]GTCTTAGCTACCCAAGGCCCAGGGAGAGGCACAGGCTCAGGCTGACAGAGTGTGACAGA
47063 I A CATTCCAGCATTCCGCATCTCATGGGGGC
47063 P G A ATGACGTGGCAGACGGTGGGCCTCACCY
47063 P T A CGCGCCGAGGTGTTGGGCCTCACCY
47063 T G A GGGAGGTGAGGCCCAACCCCCCCATGAGATGCGGAATGCTGGAATGCT
47063 T T A GGCAGGTGAGGCCCAACCCCCATGAGATGCGGAATGCTGGAATGCT
47063 IS [GT] CCATCTCATCCACAGGATAAGTCAAATGGGAGCATTCCAGCATTCCGCATCTCATGGGGG[GT]GTTGGGCCTCACCTCCCTGGCAGCCCACTCACCTCACATGGCCTGAGCCGCAAGGTCAGC
47162 I S GGGAAGGGCCACCAGGGAAGAAGCAT
47162 P C S ATGACGTGGCAGACGGGAGACAGTAGAAGAGCY
47162 P T S CGCGCCGAGGAGGAGACAGTAGAAGAGCY
47162 T C S CCATGCTCTTCTACTGTCTCCCTGCTTCTCCCCTGGTGGCCCTTCCCTT
47162 T T S CCATGCTCTTCTACTGTCTCCTTGCTTCTCCCCTGGTGGCCCTTCCCTT
47162 IS [CT] TTTAGAACTCCTCGTTCCCTTTCAAGGGTTTCCCTCCTCCCATGCTCTTCTACTGTCTCC[CT]TGCTTCTCCCCTGGTGGCCCTTCCCTTTGACTTTCCCTCGTAAGGGCAGCAAGCATGGGCC
47217 I S CCTGTTGCATGGGAATTACGCACGGGGATAA
47217 P G S ATGACGTGGCAGACCGTAGTTCTCTTCCCTGCY
47217 P A S CGCGCCGAGGTGTAGTTCTCTTCCCTGCY
47217 T G S TCATGCAGGGAAGAGAACTACGTATCCCCGTGCGTAATTCCCATGCAACAGGAA
47217 T A S TCATGCAGGGAAGAGAACTACATATCCCCGTGCGTAATTCCCATGCAACAGGAA
47217 IS [GA] ATGTTTAAATTTCCATGCAAGGGGGAGACCCACTTATTCTCATGCAGGGAAGAGAACTAC[GA]TATCCCCGTGCGTAATTCCCATGCAACAGGAAGTATCTGTTTGCCAGGCAGAAAGCGCCT
47221 I A AGTGCAAACACAACCCCAGGCAAAACTCCAT
47221 P G A ATGACGTGGCAGACGGCAACAACCTTCTTAGGY
47221 P C A CGCGCCGAGGCGCAACAACCTTCTTAGGY
47221 T G A TAGTCCTAAGAAGGTTGTTGCCTGGAGTTTTGCCTGGGGTTGTGTTTCCACTGC
47221 T C A TAGTCCTAAGAAGGTTGTTGCGTGGAGTTTTGCCTGGGGTTGTGTTTCCACTGC
47221 IS [GC] AACTAGAAGGACATGAGAATCCTCAGGTGCAGTGGAAACACAACCCAGGCAAAACTCCA[GC]GCAACAACCTTCTTAGGACTAGAACGAAAATGAAAGTGCTGGAGAGGCCACAGGCTTCCC
47243 I A TCTGGCCGTGCTGCCCTTCGCT
47243 P G A ATGACGTGGCAGACGTCTGCACAGCCCTY
47243 P A A CGCGCCGAGGATCTGCAGACGCCTGY
47243 T G A ATACCACGGCTCTGCAGACGCGAAGGGCAGCACGGCCAGAGC
47243 T A A ATACCACGGCTCTGCAGATGCGAAGGGCAGCACGGCCAGAGC
47243 IS [GA] CATCACTGACCCCGTGAGCAAGACTTTCTCTCCGGAAGCTCTGGCCGTGCTGCCCTTCGC[GA]TCTGCAGAGCCGTGGTATATGCCCACTTGCCACCTGGTTGCCTTTTCCACGTCCACCTCC
47272 I S TGCCAAAGCTCGCTGGCTGCTT
47272 P G S CGCGCCGAGGCGGTGACATCCCAGCY
47272 P C S ATGACGTGGCAGACGGGTGACATCCCAGCY
47272 T G S GTGGGCTGGGATGTCACCGAGCAGCCAGGCAGGCTTTGGCAGT
47272 T C S GTGGGCTGGGATGTCACCCAGCAGCCAGGCAGGCTTTGGCAGT
47272 IS [GC] CAGTCCAGGCTGACCGTGCCCGTCAACTGGTTTCACACCCTGGTGGGCTGGGATGTCACC[GC]AGCAGCCAGGCAGGCTTTGGCAGTGGATGCCTCTGGGCCCAGTAGCATGCTCCCGCAGCGTA
47277 I A TGCTTCCCTGGCTCCAATGCCGCA
47277 P C A ATGACGTGGCAGACCGAGCTGGTCCCCY
47277 P T A CGCGCCGAGGTGAGCTGGTCCCCAY
47277 T C A TAAGTGGGGACCAGCTCGGCGGCATTGGAGCCAGGGAAGCAGC
47277 T T A TAAGTGGGGACCAGCTCAGCGGCATTGGAGCCAGGGAAGCAGC
47277 IS [CT] CCGGCCCACCCCCGCCCCGTTCCTCTCTCCGGCTCGCTGCTTCCCTCGCTCCAATGCCGC[CT]GAGCTGGTCCCCACTTATGTGCGGCCGTGCTGCAGAGGCCGCGGCGAGCTCCCGGACTCC
49250 I S TGCTATTATTTCTAATGTGGGCTTTGGTGGCAGT
49250 P C S ATGACGTGGCAGACGAAATCTACAGAAAAGGCCAY
49250 P T S CGCGCCGAGGAAAATCTACAGAAAAGGCCAY
49250 T C S ATTCTGGCCTTTTCTGTAGATTTCCTGCCACCAAAGCCCACATTAGAAATAATAGCATT
49250 T T S ATTCTGGCCTTTTCTGTAGATTTCTGCCACCAAAGCCCACATTAGAAATAATAGCATT
49250 IS [CT] AGGATTTATGTTGATGGTTTAAACCTGATGCAGTGCTATTCTGGCCTTTTCTGTAGATTT[CT]CTGCCACCAAAGCCCACATTAGAAATAATAGCATTTAACCTAATGTTTCATTTTCATTTG
49305 I A CTAAGCAAAGGTGGTCAATGTGGTAGGAATTTAATCAACA
49305 P T A CGCGCCGAGGTCCACAGGCTAACCCY
49305 P C A ATGACGTGGCAGACCCACAGGCTAACCCY
49305 T T A AAAAGGGTTAGCCTGTGGAGTTGATTAAATTCCTACCACATTGACCACCTTTGCTTAGTA
49305 T C A AAAAGGGTTAGCCTGTGGGGTTGATTAAATTCCTACCACATTGACCACCTTTGCTTAGTA
49305 IS [TC] TGCCACTGAAGAAAATATATACTAAGCAAAGGTGGTCAATGTGGTAGGAATTTAATCAAC[TC]CCACAGGCTAACCCTTTTTACAAAAGTCATGTAAGAGTTGGCACAATTCAAGCTTTATCC
49358 I S CCCGGCTGCCTCGGACCTTGCT
49358 P G S CGCGCCGAGGCTGTATCAGGAATCTCGAAATY
49358 P C S ATGACGTGGCAGACGTGTATCAGGAATCTCGAAATY
49358 T G S CGAGATTTCGAGATTCCTGATACAGGCAAGGTCCGAGGCAGCCGGGGA
49358 T C S CGAGATTTCGAGATTCCTGATACAGGCAAGGTCCGAGGCAGCCGGGGA
49358 IS [GC] CGCGATCGGGTTTCTCTCTGTCAGGCAGAGCGCTGGCGAGATTTCGAGATTCGCTGATACA[GC]GCAAGGTCCGAGGCAGCCGGGGAACCGGCGGGCTTCCACGCGGGGGCCCCAGTGGCCCC
49547 I A AGAGTCCTTGACTTGATCCCCACACACCCAA
49547 P T A CGCGCCGAGGTCTACCTCATGGGAAGGY
49547 P C A ATGACGTGGCAGACCCTACCTCATGGGAAGGY
49547 T T A GGGTCCTTCCCATGAGGTAGATGGGTGTGTGGGGATCAAGTCAAGGACTCTGT
49547 T C A GGGTCCTTCCCATGAGGTAGGTGGGTGTGTGGGGATCAAGTCAAGGACTCTGT

FIGURE 129F

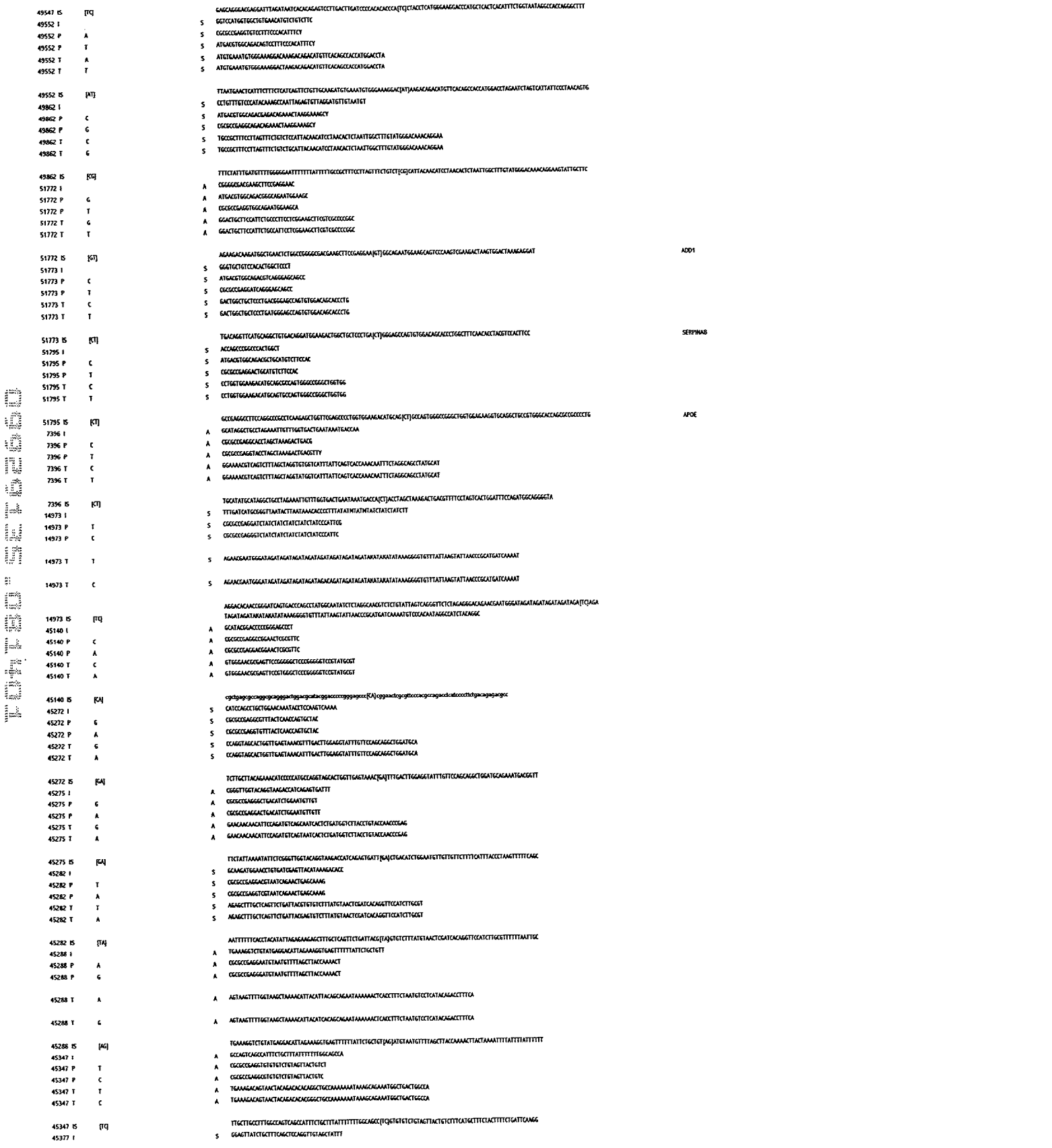
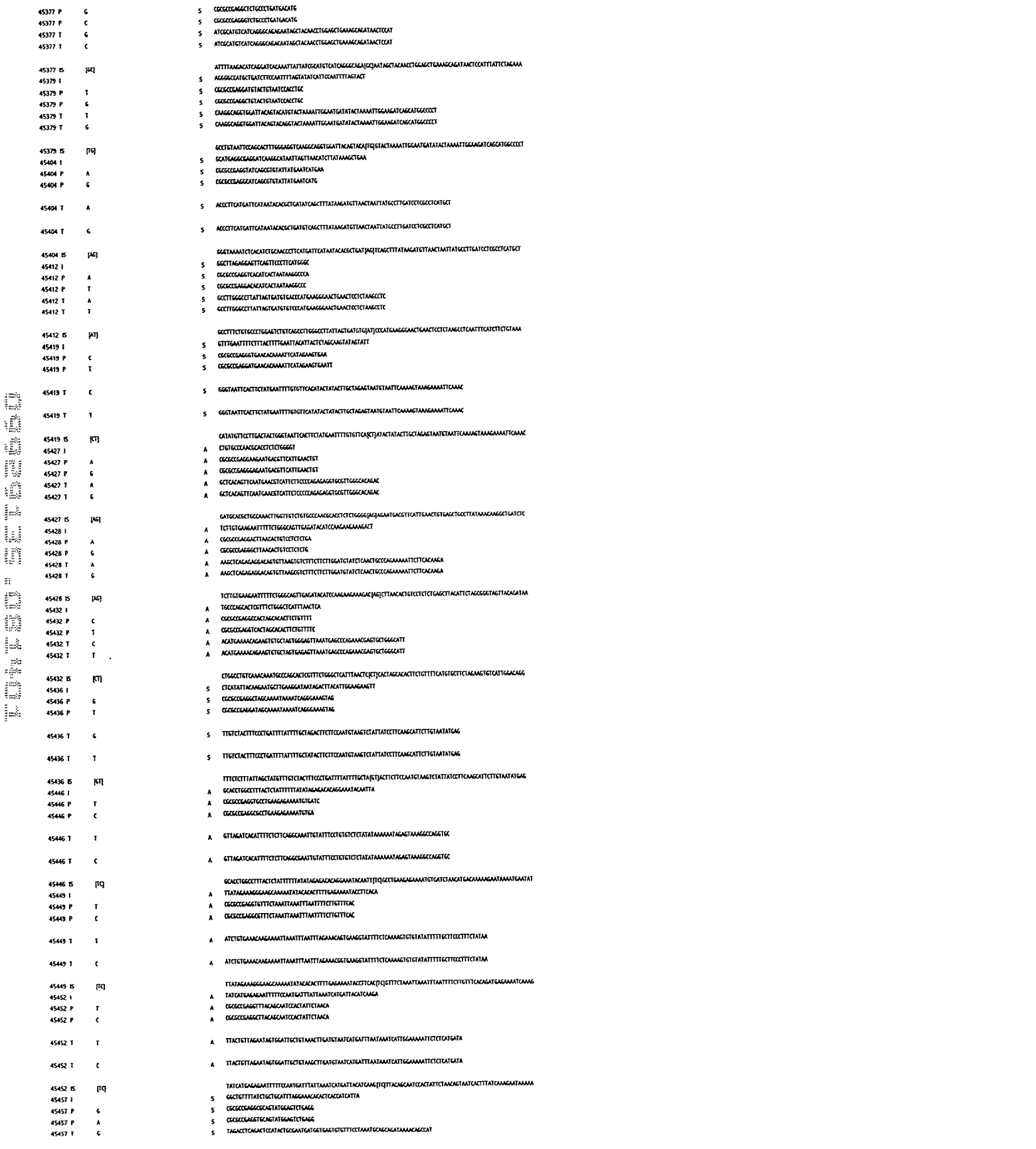
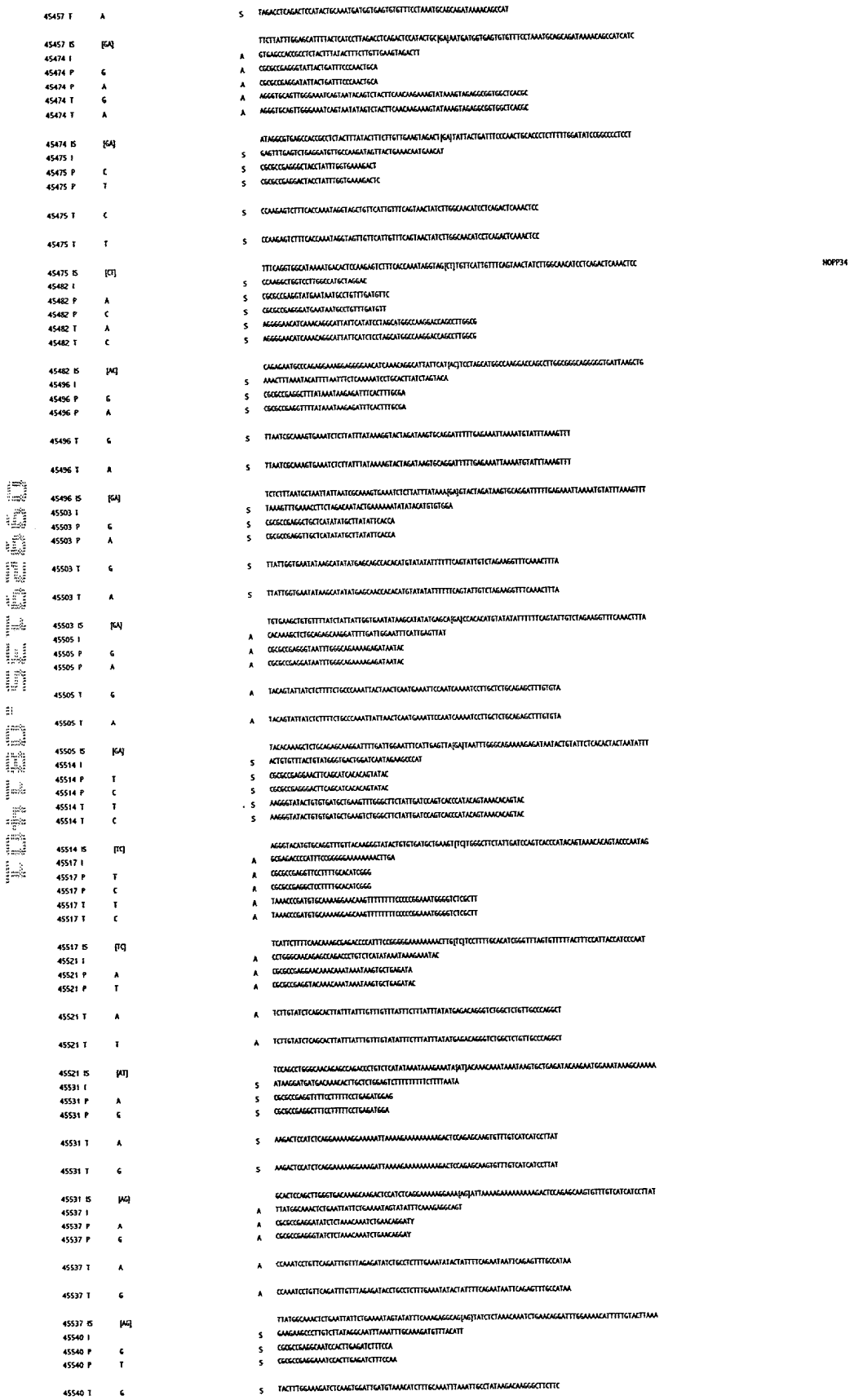


FIGURE 129F



Applied Biosystems, Inc. Patent Application

FIGURE 129F



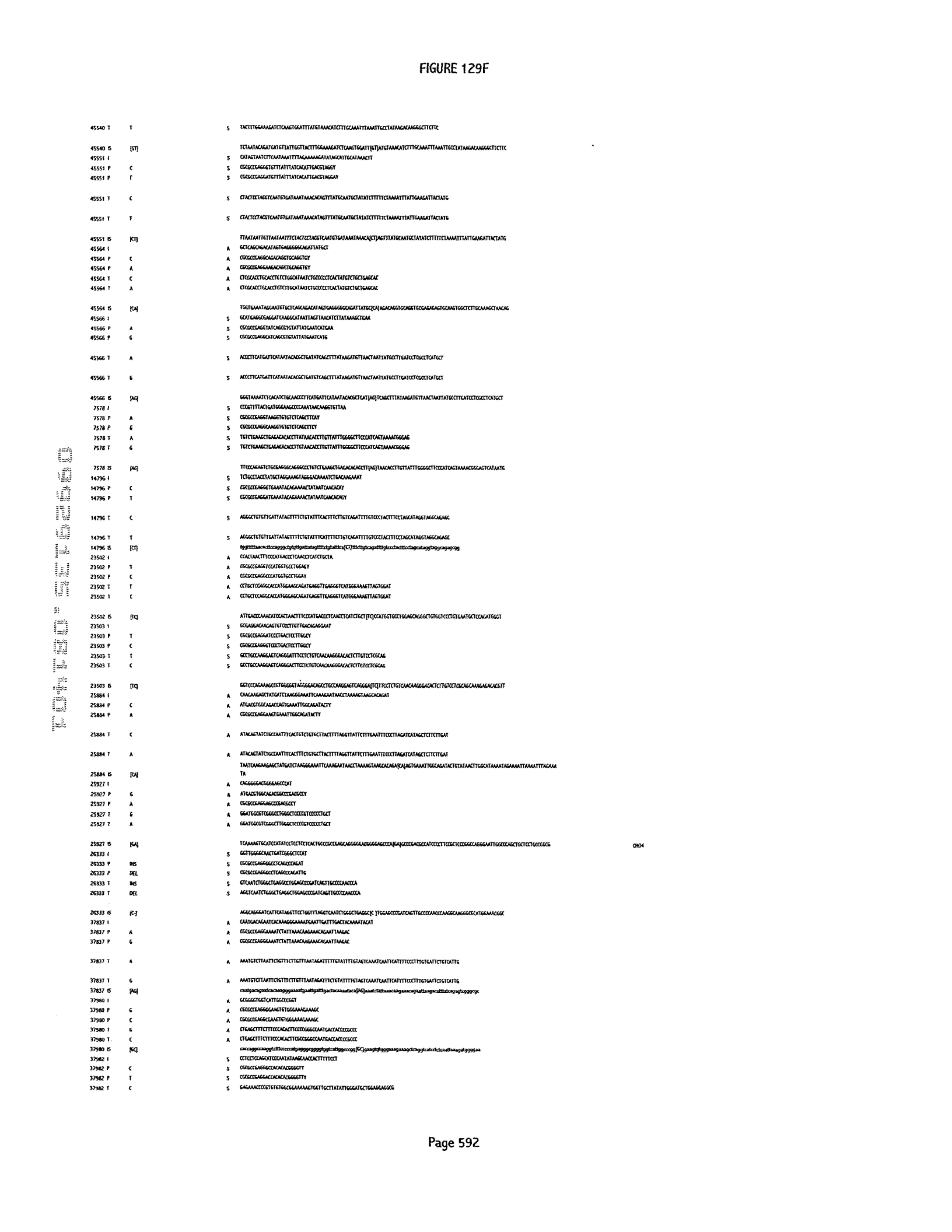
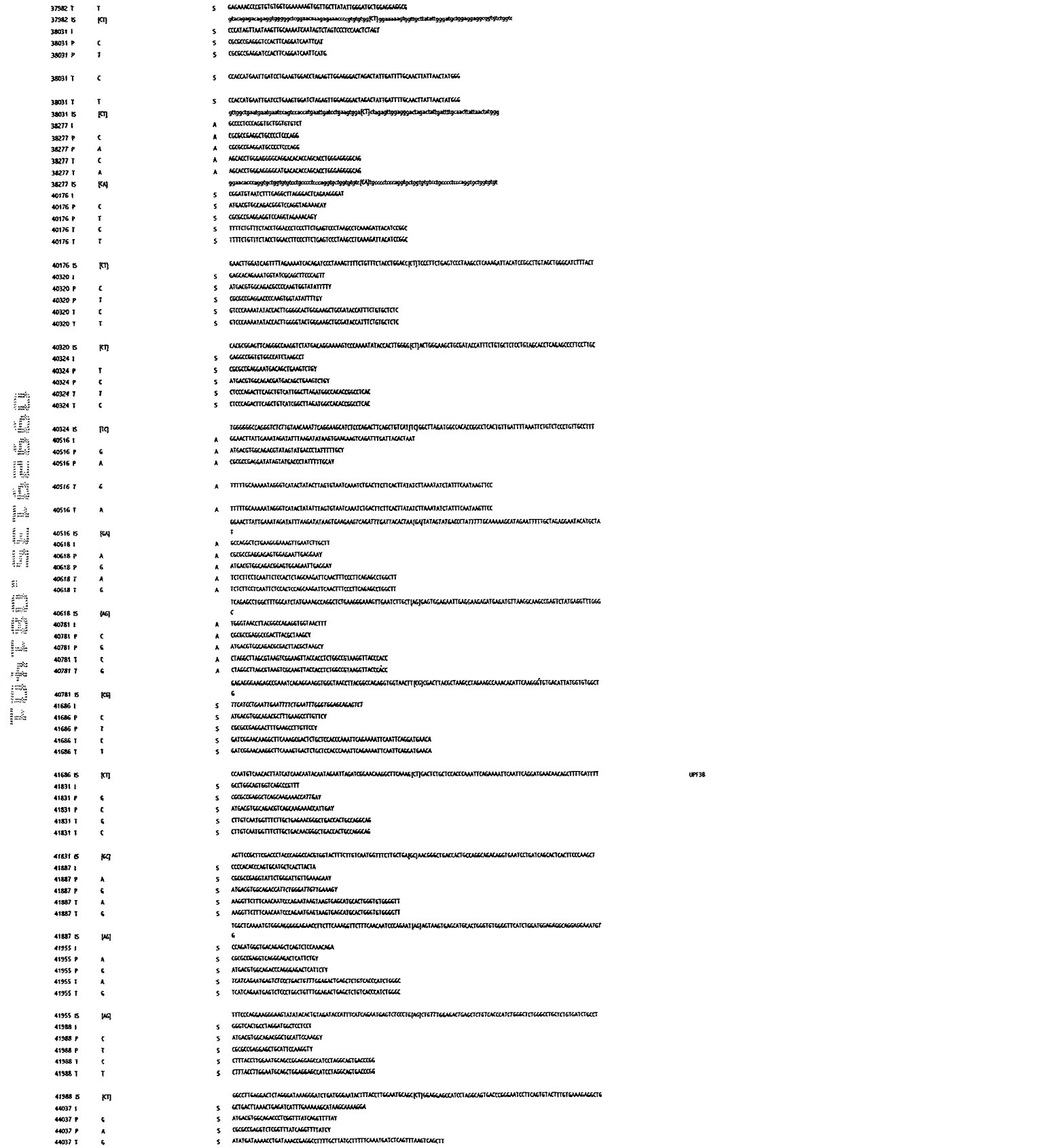


FIGURE 129F


37982 T T S GAGAAACCCCGTGTGTGGTGGAAAAAGTGGTTGCTTATATTGGGATGCTGGAGGAGGCG
37982 IS [CT] gbacagagacagaggtgggggcdcggaacaagagaaaccccgtgtgtgg[CT]ggaaaaagtggtgcttatattgggatgcdggaggaggcggtgtctggtc
38031 I S CCCATAGTTAATAAGTTGCAAAATCAATAGTCTAGTCCCTCCAACTCTAGT
38031 P C S CGCGCCGAGGGTCCACTTCAGGATCAATTCAT
38031 P T S CGCGCCGAGGATCCACTTCAGGATCAATTCATG
38031 T C S CCACCATGAATTGATCCTGAAGTGGACCTAGAGTTGGAGGGACTAGACTATTGATTTTGCAACTTATTAACTATGGG
38031 T T S CCACCATGAATTGATCCTGAAGTGGATCTAGAGTTGGAGGGACTAGACTATTGATTTTGCAACTTATTAACTATGGG
38034 IS [CT] gtlggctgaatgaatgaatccagtccaccatgaatgatcctgaaagtggg[CT]ctagagtggagggactagactatlgatttgcaacttaltaactatggg
38277 I A GCCCCTCCCAGGTGCTGGTGTGTCT
38277 P C A CGCGCCGAGGCTGCCCCTCCCAGG
38277 P A A CGCGCCGAGGATGCCCCTCCCAGG
38277 T C A AGCACCTGGGAGGGGCAGGACACACCAGCACCTGGGAGGGCAG
38277 T A A AGCACCTGGGAGGGGCATGACACACCAGCACCTGGGAGGGCAG
38277 IS [CA] ggaacacccaggtgctggtgtgtcctgcccctcccaggtgctggtgtgtc[CA]tgccctcccaggtgctggtgtgtctgccctcccaggtgctggtgtgt
40176 I S CGGATGTAATCTTTGAGGCTTAGGGACTCAGAAGGGAT
40176 P C S ATGACGTGCCAGACGGGTCCAGGTAGAAACAT
40176 P T S CGCGCCGAGGAGGTCCAGGTAGAAACAGY
40176 T C S TTTTCTGTTTCTACCTGGACCTCCCTTCTGAGTCCCTAAGCCTCAAAGATTACATCCGGC
40176 T T S TTTTCTGTTTCTACCTGGACCTTCCCTTCTGAGTCCCTAAGCCTCAAAGATTACATCCGGC
40176 IS [CT] GAACTTGGATCAGTTTTAGAAAATCACAGATCCCTAAAGTTTTCTGTTTCTACCTGGACC[CT]TCCCTTCTGAGTCCCTAAGCCTCAAAGATTACATCCGGCTTGTAGCTGGGCATCTTTACT
40320 I S GAGCACAGAAATGGTATCGCAGCTTCCCAGTT
40320 P C S ATGACGTGGCAGACGCCCCAAGTGGTATATTTTY
40320 P T S CGCGCCGAGGACCCCAAGTGGTATATTTTGY
40320 T C S GTCCCAAAATATACCACTTGGGGCACTGGGAAGCTGCGATACCATTTCTGTGCTCTC
40320 T T S GTCCCAAAATATACCACTTGGGGTACTGGGAAGCTGCGATACCATTTCTGTGCTCTC
40320 IS [CT] CACGCGGAGTTCAGGGCAAGGTCTATGACAGGAAAAGTCCCAAAATATACCACTTGGGG[CT]ACTGGGAAGCTGCGATACCATTTCTGTGCTCTCCTGTAGCACCTCAGAGCCCTCCTTGC
40324 I S GAGCCCGGTGTGGCCCATCTAAGCCT
40324 P T S CGCGCCGAGGAATGACAGCTGAAGTCTGY
40324 P C S ATGACGTGGCAGACGATGACAGCTGAAGTCTGY
40324 T T S CTCCCAGACTTCAGCTGTCATTGGCTTAGATGGCCACACCGGCCTCAC
40324 T C S CTCCCAGACTTCAGCTGTCATCGGCTTAGATGGCCACACCGGCCTCAC
40324 IS [TC] TGGGGGGCCAGGGTCTCTGTAACAAATTCAGGAAGCATCTCCCAGACTTCAGCTGTCAT[TC]GGCTTAGATGGCCACACCGGCCTCACTGTTGATTTTAAATTCTGTCTCCCTGTTGCCTTT
40516 I A GGAACTTATTGAAATAGATATTTAAGATATAAGTGAAGAAGTCAGATTTGATTACACTAAT
40516 P G A ATGACGTGGCAGACGTATAGTATGACCCTATTTTTGCY
40516 P A A CGCGCCGAGGATATAGTATGACCCTATTTTTGCAY
40516 T G A TTTTTGCAAAAATAGGGTCATACTATACTTAGTGTAATCAAATCTGACTTCTTCACTTATATCTTAAATATCTATTTCAATAAGTTCC
40516 T A A TTTTTGCAAAAATAGGGTCATACTATATTTAGTGTAATCAAATCTGACTTCTTCACTTATATCTTAAATATCTATTTCAATAAGTTCC
40516 IS [GA] GGAACTTATTGAAATAGATATTTAAGATATAAGTGAAGAAGTCAGATTTGATTACACTAA[GA]TATAGTATGACCCTATTTTTGCAAAAAGCATAGAATTTTTGCTAGAGGAATACATGCTA T
40618 I A GCCAGGCTCTGAAGGGAAAGTTGAATCTTGCTT
40618 P A A CGCGCCGAGGAGAGTGGAGAATTGAGGAAY
40618 P G A ATGACGTGGCAGACGGAGTGGAGAATTGAGGAY
40618 T A A TCTCTTCCTCAATTCTCCACTCTAGCAAGATTCAACTTTCCCTTCAGAGCCTGGCTT
40618 T G A TCTCTTCCTCAATTCTCCACTCCAGCAAGATTCAACTTTCCCTTCAGAGCCTGGCTT
40618 IS [AG] TCAGAGCCTGGCTTTGGCATCTATGAAAGCCAGGCTCTGAAGGGAAAGTTGAATCTTGCT[AG]GAGTGGAGAATTGAGGAAGAGATGAGATGTTAAGGCAAGCCGAGTCTATGAGGTTTGGG C
40781 I A TGGGTAACCTTACGGCCAGAGGTGGTAACTTT
40781 P C A CGCGCCGAGGCCGACTTACGCTAAGCY
40781 P G A ATGACGTGGCAGACGCGACTTACGCTAAGCY
40781 T C A CTAGGCTTAGCGTAAGTCGCAAGTTACCACCTCTGGCCGTAAGGTTACCCACC
40781 T G A CTAGGCTTAGCGTAAGTCGCAAGTTACCACCTCTGGCCGTAAGGTTACCCACC
40781 IS [CG] GAGAGGGAAGAGCCGAAATCAGAGGAAGGTGGGTAACCTTACGGCCAGAGGTGGTAACTT[CG]CGACTTACGCTAAGCCTAGAAGCCAAACAGATTCAAGGGTGTGACATTATGGTGTGGCT G
41686 I S TTCATGCTGAATTGAATTTTCTGAATTTGGGTGGAGCAGAGTCT
41686 P C S ATGACGTGGCAGACGCTTTGAAGCCTYGTTCY
41686 P T S CGCGCCGAGGACTTTGAAGCCTYGTTCCY
41686 T C S GATCGGAACAAGGCTTCAAAGCGACTCTGCTCCACCCAAATTCAGAAAATTCAATTCAGGATGAACA
41686 T T S GATCGGAACAAGGCTTCAAAGTGACTCTGCTCCACCCAAATTCAGAAAATTCAATTCAGGATGAACA
41686 IS [CT] CCAATGTCAACACTTATCATCAACAATACAATAGAATTAGATCGGAACAAGGCTTCAAAG[CT]GACTCTGCTCCACCCAAATTCAGAAAATTCAATTCAGGATGAACAACAGCTTTTGATTTT UPF3B
41831 I S GCCTGGCAGTGGTCAGCCCGTTT
41831 P G S CGCGCCGAGGCTCAGCAAGAAACCATTGAY
41831 P C S ATGACGTGGCAGACGTCAGCAAGAAACCATTGAY
41831 T G S CTTGTCAATGGTTTCTTGCTGAGAACGGGCTGACCACTGCCAGGCAG
41831 T C S CTTGTCAATGGTTTCTTGCTGACAACGGGCTGACCACTGCCAGGCAG
41831 IS [GC] AGTTCCGCTTCGACCCTACCCAGGCCACGTGGTACTTTCTTGTCAATGGTTTCTTGCTGA[GC]AACGGGCTGACCACTGCCAGGCAGACAGGTGAATCCTGATCAGCACTCACTTCCCAAGCT
41887 I S CCCCACACCCAGTGCATGCTCACTTACTA
41887 P A S CGCGCCGAGGTATTCTGGGATTGTTGAAAGAAY
41887 P G S ATGACGTGGCAGACCATTCTGGGATTGTTGAAAGY
41887 T A S AAGGTTCTTCAACAATCCCAGAATAAGTAAGTGAGCATGCACTGGGTGTGGGGTT
41887 T G S AAGGTTCTTCAACAATCCCAGAATGAGTAAGTGAGCATGCACTGGGTGTGGGGTT
41887 IS [AG] TGGCTCAAAATGTGGGAGGGGGAGAACCTTCTTCAAAGGTTCTTTCAACAATCCCAGAAT[AG]AGTAAGTGAGCATGCACTGGGTGTGGGGTTTCATCTGGATGGAGAGGCNGGAGGAAATGT G
41955 I S CCAGATGGGTGACAGAGCTCAGTCTCCAAACAGA
41955 P A S CGCGCCGAGGTCAGGGAGACTCATTCTGY
41955 P G S ATGACGTGGCAGACCCAGGGAGACTCATTCTGY
41955 T A S TCATCAGAATGAGTCTCCCTGGCTGTTTGGAGACTGAGCTCTGTCACCCATCTGGGC
41955 T G S TCATCAGAATGAGTCTCCCTGGCTGTTTGGAGACTGAGCTCTGTCACCCATCTGGGC
41955 IS [AG] TTTCCCAGGAAGGGAAGTATATACACTGTAGATACCATTTCATCAGAATGAGTCTCCCTG[AG]CTGTTTGGAGACTGAGCTCTGTCACCCATCTGGGCCTCTGGGCCTGCTCTGTGATCTGCCT
41988 I S GGGTCACTGCCTAGGATGGCTCCTCCT
41988 P C S ATGACGTGGCAGAGGCCTGCATTCCAAGGY
41988 P T S CGCGCCGAGGAGCTGCATTCCAAGGTY
41988 T C S CTTTACCTTGGAATGCAGCCGCAGGAGCCATCCTAGGCAGTGACCCGG
41988 T T S CTTTACCTTGGAATGCAGCTGGAGGAGCCATCCTAGGCAGTGACCCGG
41988 IS [CT] GGCCTTGAGGACTCTAGGGATAAAGGGATCTGATGGGATACTTTACCTTGGAATGCAGC[CT]GGAGGAGCCATCCTAGGCAGTGACCCGGGAATCCTTCAGTGTACTTTGTGAAAGAGGCTG
44037 I S GCTGACTTAAACTGAGATCATTTGAAAAAGCATAAGCAAAAGGA
44037 P G S ATGACGTGGCAGACCCTCGGTTTATCAGGTTTTAY
44037 P A S CGCGCCGAGGTCTCGGTTTATCAGGTTTTATCY
44037 T G S ATATGATAAAACCTGATAAACCGAGGCCTTTTGCTTATGCTTTTTCAAATGATCTCAGTTTAAGTCAGCTT

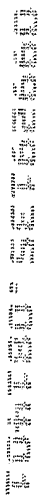


FIGURE 129F



FIGURE 129F

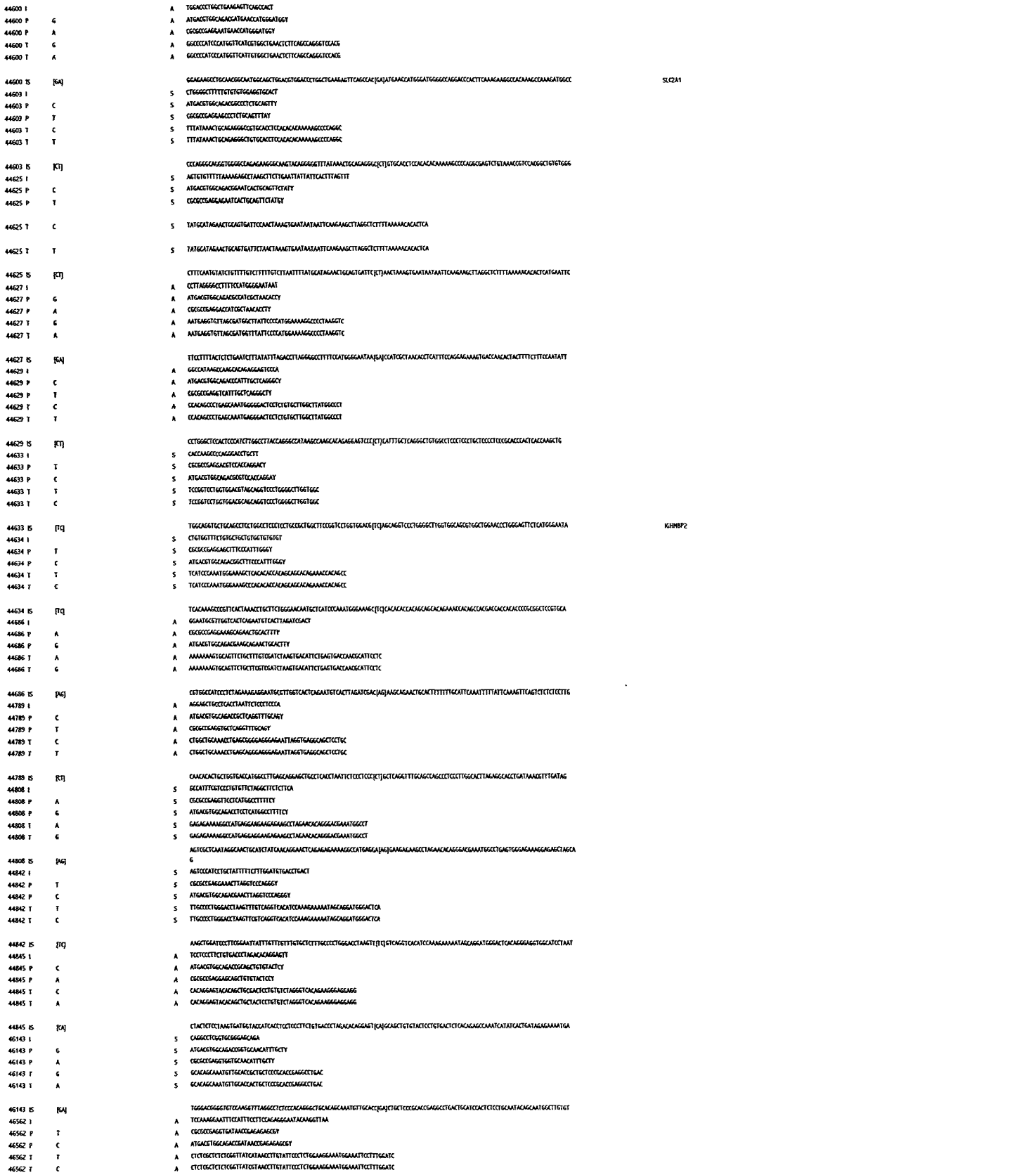

44600 I A TGGACCCTGGCTGAAGAGTTCAGCCACT
44600 P G A ATGACGTGGCAGAGATGAACCATGGGATGGY
44600 P A A CGCGCCGAGGAATGAACCATGGGATGGY
44600 T G A GGCCCCATCCCATGGTTCATCGTGGCTGAACTCTTCAGCCAGGGTCCACG
44600 T A A GGCCCCATCCCATGGTTCATTGTGGCTGAACTCTTCAGCCAGGGTCCACG
44600 IS [GA] GCAGAAGCCTGCAACGGCAATGGCAGCTGGACGTGGACCCTGGCTGAAGAGTTCAGCCAC[GA]ATGAACCATGGGATGGGGCCAGGACCCACTTCAAAGAAGGCCACAAAGCCAAAGATGGCC SLC2A1
44603 I S CTGGGGCTTTTTGTGTGTGCAGGTGCACT
44603 P C S ATGACGTGGCAGACGGCCCTCTGCAGTTY
44603 P T S CGCGCCGAGGAGCCCTCTGCAGTTTAY
44603 T C S TTTATAAACTGCAGAGGGCCGTGCACCTCCAGACACAAAAAGCCCCAGGC
44603 T T S TTTATAAACTGCAGAGGGCTGTGCACCTCCAGACACAAAAAGCCCCAGGC
44603 IS [CT] CCCAGGGCAGGGTGGGGCCAGAGAAGGGCAAGTACAGGGGGTTTATAAACTGCAGAGGGC[CT]GTGCACCTCCAGACACAAAAAGCCCCAGGCGAGTCTGTAAACCGTCCAGGCTGTGTGGG
44625 I S AGTGTGTTTTTAAAAGAGCCTAAGCTTCTTGAATTATTATTCACTTTAGTTT
44625 P C S ATGACGTGGCAGACGGAATCACTGCAGTTCTATY
44625 P T S CGCGCCGAGGAGAATCACTGCAGTTCTATGY
44625 T C S TATGCATAGAACTGCAGTGATTCCAACTAAAGTGAATAATAATTCAAGAAGCTTAGGCTCTTTTAAAAACACACTCA
44625 T T S TATGCATAGAACTGCAGTGATTCTAACTAAAGTGAATAATAATTCAAGAAGCTTAGGCTCTTTTAAAAACACACTCA
44625 IS [CT] CTTTCAATGTATCTGTTTTGTCTTTTGTCTTAATTTTATGCATAGAACTGCAGTGATTC[CT]AACTAAAGTGAATAATAATTCAAGAAGCTTAGGCTCTTTTAAAAACACACTCATGAATTC
44627 I A CCTTAGGGGCCTTTTCCATGGGGATAAT
44627 P G A ATGACGTGGCAGACGCCATCGCTAACACCY
44627 P A A CGCGCCGAGGACCATCGCTAACACCTY
44627 T G A AATGAGGTGTTAGCGATGGTTTATTCCCCATGGAAAAGCCCCTAAGGTC
44627 T A A AATGAGGTGTTAGCGATGGTTTATTCCCCATGGAAAAGCCCCTAAGGTC
44627 IS [GA] TTCCTTTTACTCTCTGAATCTTTATATTTAGACCTTAGGGGCCTTTTCCATGGGGATAA[GA]CCATCGCTAACACCTCATTTCCAGGAGAAAGTGACCAACACTACTTTCTTTCCAATATT
44629 I A GGCCATAAGCCAAGCACAGAGGAGTCCCA
44629 P C A ATGACGTGGCAGACCCATTTGCTCAGGGCY
44629 P T A CGCGCCGAGGTCATTTGCTCAGGGCTY
44629 T C A CCACAGCCCTGAGCAAATGGGGGACTCCTCTGTGCTTGGCTTATGGCCCT
44629 T T A CCACAGCCCTGAGCAAATGAGGGACTCCTCTGTGCTTGGCTTATGGCCCT
44629 IS [CT] CCTGGGCTCCACTCCCATCTTGGCCTTACCAGGGCCATAAGCCAAGCACAGAGGAGTCCC[CT]CATTTGCTCAGGGCTGTGGCCTCCCTCCTGCTCCCCTCCCGCACCCACTCACCAAGCTG
44633 I S CACCAAGCCCCAGGGACCTGCTT
44633 P T S CGCGCCGAGGACGTCCACCAGGACT
44633 P C S ATGACGTGGCAGACGGGTCCACCAGGAY
44633 T T S TCCGGTCCTGGTGGACGTAGCAGGTCCCTGGGGCTTGGTGGC
44633 T C S TCCGGTCCTGGTGGACGCAGCAGGTCCCTGGGGCTTGGTGGC
44633 IS [TC] TGGCAGGTGCTGCAGCCTCCTGGGCTCCCTCCTGCCGCTGGCTTCCGGTCCTGGTGGACG[TC]AGCAGGTCCCTGGGGCTTGGTGGCAGCGTGGCTGGAACCCTGGGAGTTCTCATGGGAATA IGHMBP2
44634 I S CTGTGGTTTCTGTGCTGCTGTGGTGTGTGT
44634 P T S CGCGCCGAGCAGCTTTCCCATTTGGGY
44634 P C S ATGACGTGGCAGACGGCTTTCCCATTTGGGY
44634 T T S TCATCCCAAATGGGAAAGCTCACACACCACAGCAGCACAGAAACCACAGCC
44634 T C S TCATCCCAAATGGGAAAGCCCACACACCACAGCAGCACAGAAACCACAGCC
44634 IS [TC] TCACAAAGCCCGTCACTAAACCTGCTTCTGGGAACAATGCTCATCCCAAATGGGAAAGC[TC]CACACACCACAGCAGCACAGAAACCACAGCCACGACCACCACACCCCGCGGCTCCGTGCA
44686 I A GGAATGCGTTGGTCACTCAGAATGTCACTTAGATCGCACT
44686 P A A CGCGCCGAGGAAAGCAGAACTGCACTTTY
44686 P G A ATGACGTGGCAGACGAAGCAGCAACTGCACTTY
44686 T A A AAAAAAGTGCAGTTCTGCTTGTCGATCTAAGTGACATTCTGAGTGACCAACGCATTCCTC
44686 T G A AAAAAAGTGCAGTTCTGCTTGTCGATCTAAGTGACATTCTGAGTGACCAACGCATTCCTC
44686 IS [AG] CGTGGCCATCCCTCTAGAAAGAGGAATGCGTTGGTCACTCAGAATGTCACTTAGATCGAC[AG]AAGCAGAACTGCACTTTTTTTGCATTCAAATTTTTATTCAAAGTTCAGTCTCTCTCCTTG
44789 I A AGGAGCTGCCTCACCTAATTCTCCCTCCCA
44789 P C A ATGACGTGGCAGACCGCTCAGGTTTGCAGY
44789 P T A CGCGCCGAGGTGCTCAGGTTTGCAGY
44789 T C A CTGGCTGCAAACCTGAGCGGGGAGGGAGAATTAGGTGAGGCAGCTCCTGC
44789 T T A CTGGCTGCAAACCTGAGCAGGCAGGGAGAATTAGGTGAGGCAGCTCCTGC
44789 IS [CT] CAACACACTGCTGGTGACCATGGCCTTGAGCAGGAGCTGCCTCACCTAATCTCCCTCCC[CT]GCTCAGGTTTGCAGCCAGCCCTCCCTTGGCACTTAGAGGCACCTGATAAAGGTTTGATAG
44808 I S GCCATTTCGTCCCTGTGTTCTAGGCTTCTCTTCA
44808 P A S CGCGCCGAGGTTCCTCATGGCCTTTTCY
44808 P G S ATGACGTGGCAGACCTCCTCATGGCCTTTTCY
44808 T A S GAGAGAAAAGGCCATGAGGAAGAAGAAGCCTAGAACACAGGGACGAAATGGCCT
44808 T G S GAGAGAAAAGGCCATGAGGAAGAAGAAGCCTAGAACACAGGGACGAAATGGCCT
44808 IS [AG] AGTCGCTCAATAGGCAACTGCATCTATCAACAGGAACTCAGAGAAAAAGCCATGAGGA[AG]GAAGACAAGCCTAGAACACAGGGACGAAATGGCCTGAGTGGGAGAAAGGAGAGCTAGCA
44842 I S AGTCCCATCCTGCTATTTTCTTTGGATGTGACCTGACT
44842 P T S CGCGCCGAGGAAACTTAGGTCCCAGGGY
44842 P C S ATGACGTGGCAGACGAACTTAGGTCCCAGGGY
44842 T T S TTGCCCCTGGGACCTAAGTTTGTCAGGTCACATCCAAAGAAAAATAGCAGGATGGGACTCA
44842 T C S TTGCCCCTGGGACCTAAGTTTGTCAGGTCACATCCAAAGAAAAATAGCAGGATGGGACTCA
44842 IS [TC] AAGCTGGATCCCTTCGGAATTATTTGTTTGTTTGTGCTCTTTGCCCCTGGGACCTAAGTT[TC]GTCAGTCACATCCAAAGAAAAATAGCAGGATGGGACTCACAGGGAGGTGGCATCCTAAT
44845 I A TCCTCCCTTCTGTGACCCTAGACACAGGAGTT
44845 P C A ATGACGTGGCAGACCGCAGCTGTGTACTCY
44845 P A A CGCGCCGAGGAGCAGCTGTGTACTCCT
44845 T C A CACAGGAGTACACAGCTGCCACTCCTGTGTCTAGGGTCACAGAAGGCAGGAAG
44845 T A A CACAGGAGTACACAGCTGCTACTCCTGTGTCTAGGGTCACAGAAGGCAGGAAG
44845 IS [CA] CTACTCTCCTAAGTGATGGTACCATCACCTCCTCCCTCTGTGACCCTAGACACAGGAGT[CA]GCAGCTGTGTACTCCTGTGACTCTCACAGAGCCAAATCATATCACTGATAGAGAAAATGA
46143 I S CAGGCCTCGGTGCGGGAGCAGA
46143 P G S ATGACGTGGCAGACCGGTGCAACATTTGCTY
46143 P A S CGCGCCGAGGTGGTGCAACATTTGCTY
46143 T G S GCACAGCAAATGTTGCACGCTGCTCCCGCACCGAGGCCTGAC
46143 T A S GCACAGCAAATGTTGCACCACTGCTCCCGCACCGAGGCCTGAC
46143 IS [GA] TGGGACGGGGTGTCCAAGGTTTAGGCCTCTCCCACAGGGCTGCACAGCAAATGTTGCACC[GA]CTGCTCCCGCACCGAGGCCTGACTGCATCCACTCTCCTGCAATACAGCAATGGCTTGTGT
46562 I A TCCAAAGGAATTTCCATTTCCTTCCACAGGCAATACAAGGTTAA
46562 P T A CGCGCCGAGGTGATAACCGACAGAGAGCGY
46562 P C A ATGACGTGGCAGACCGATAACCGACAGAGAGCGY
46562 T T A CTCTCGCTCTCTCGGTTATCATAACCTTGTATTCCCTCTGGAAGGAAATGGAAATTCCTTTGGATC
46562 T C A CTCTCGCTCTCTCGGTTATCGTAACCTTGTATTCCCTCTGGAAGGAAATGGAAATTCCTTTGGATC

FIGURE 129F



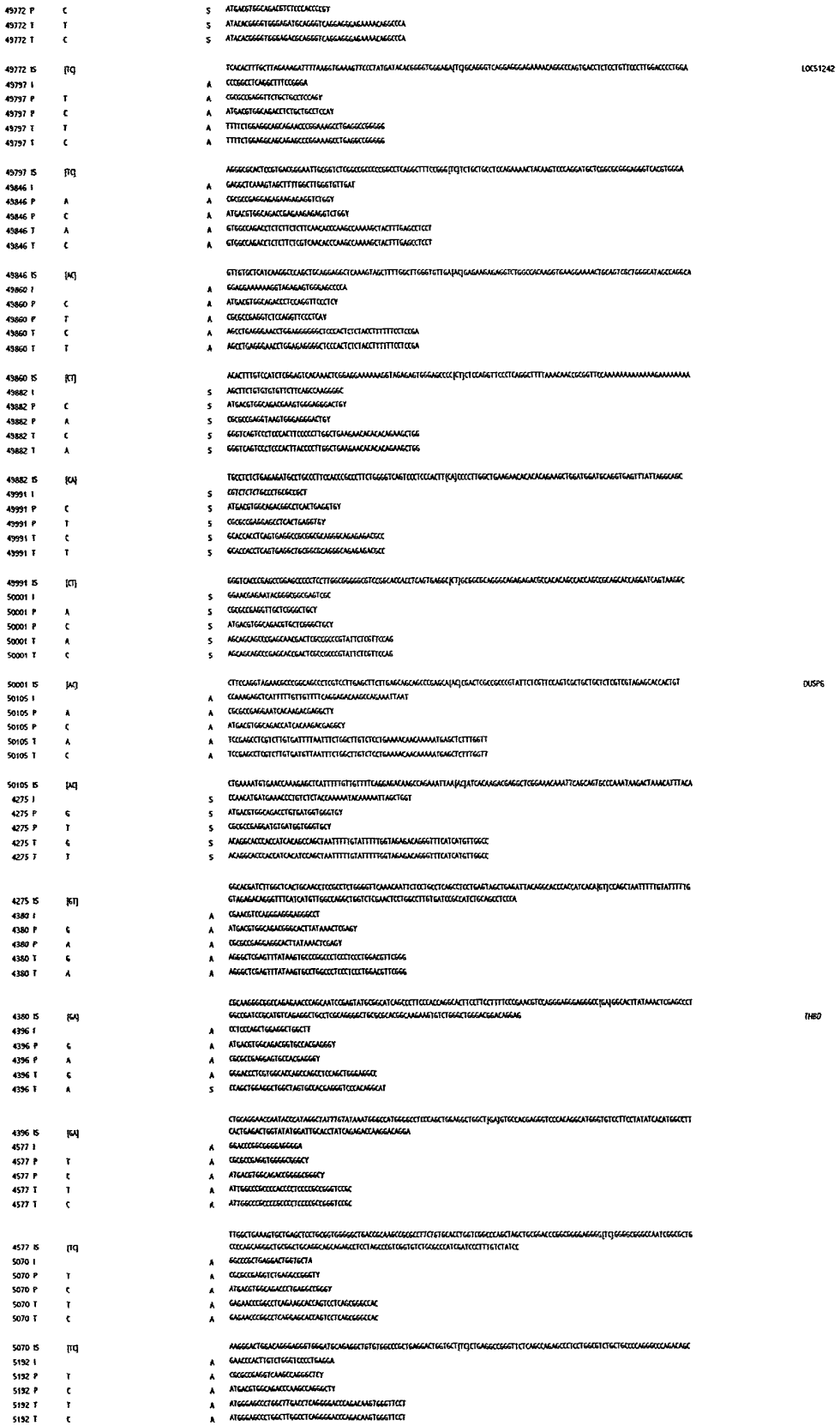


FIGURE 129F

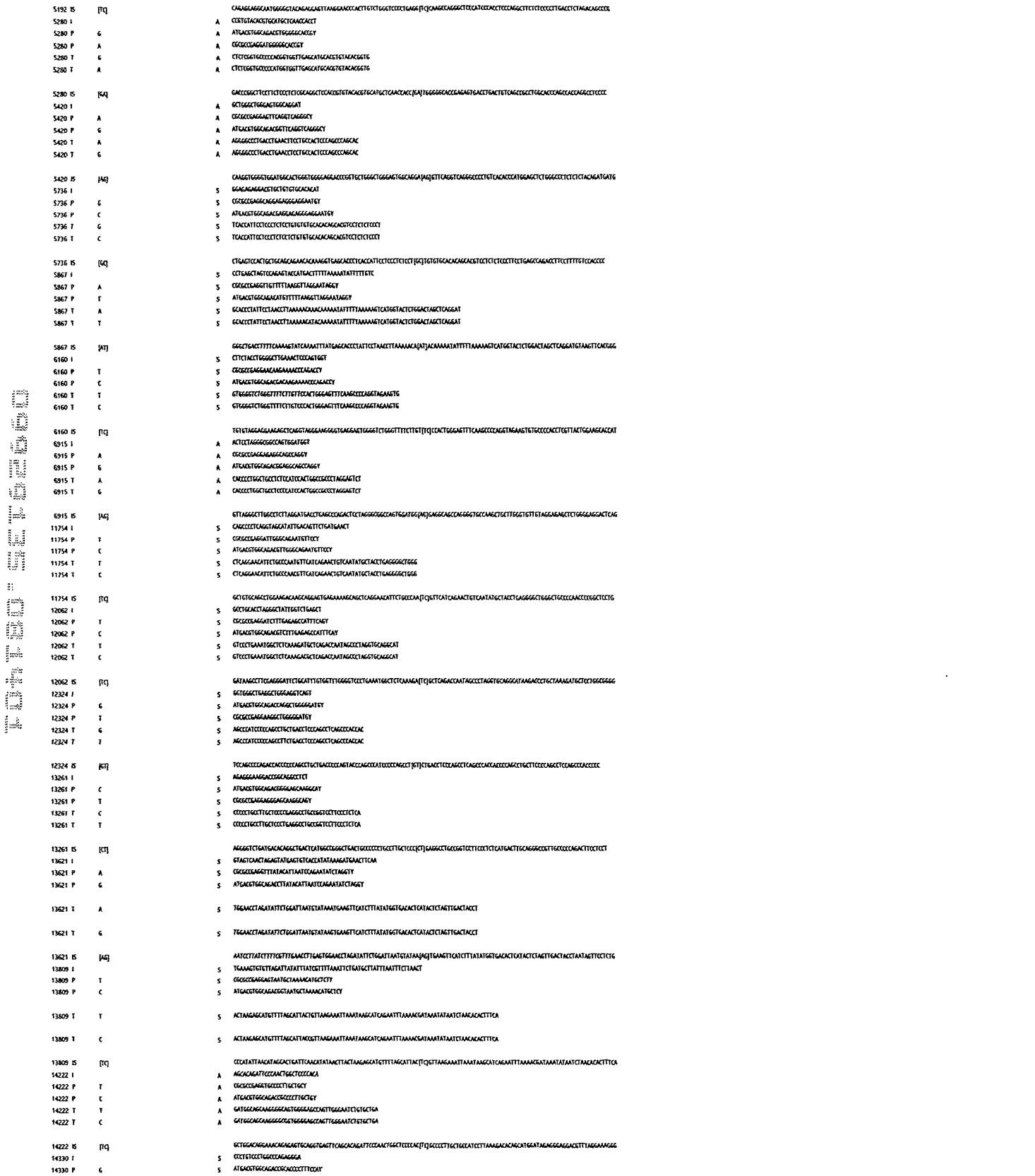


FIGURE 129F

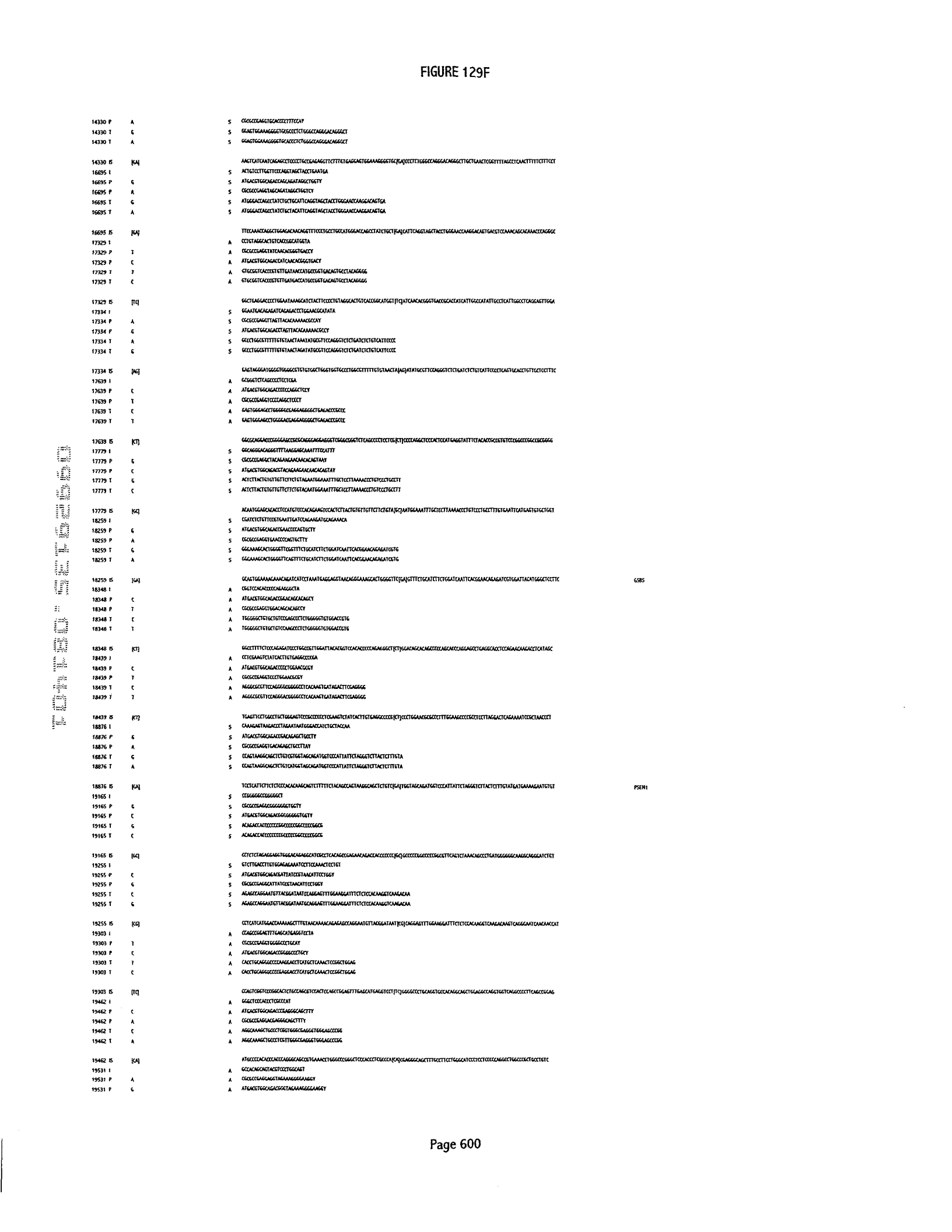


FIGURE 129F

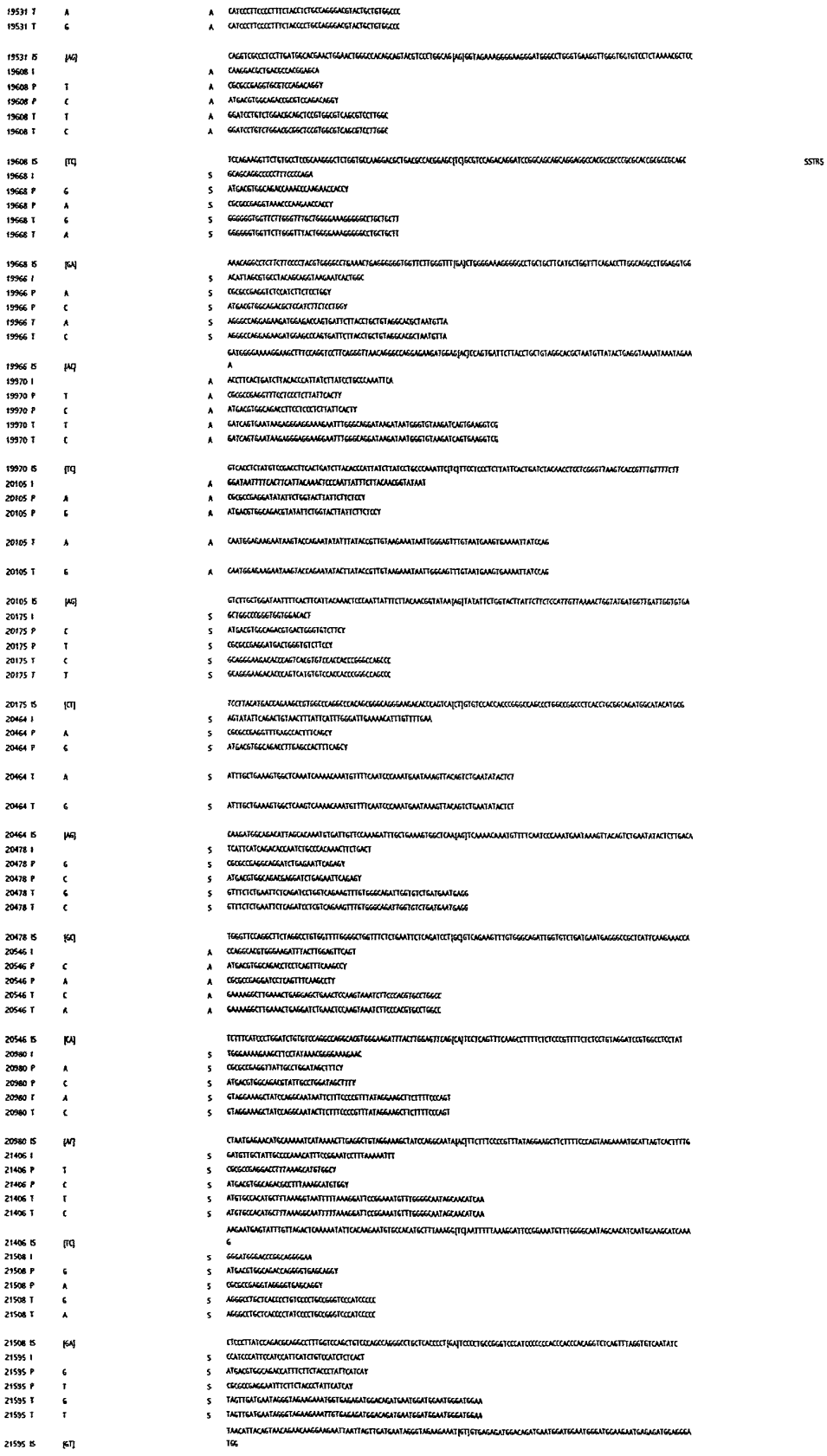
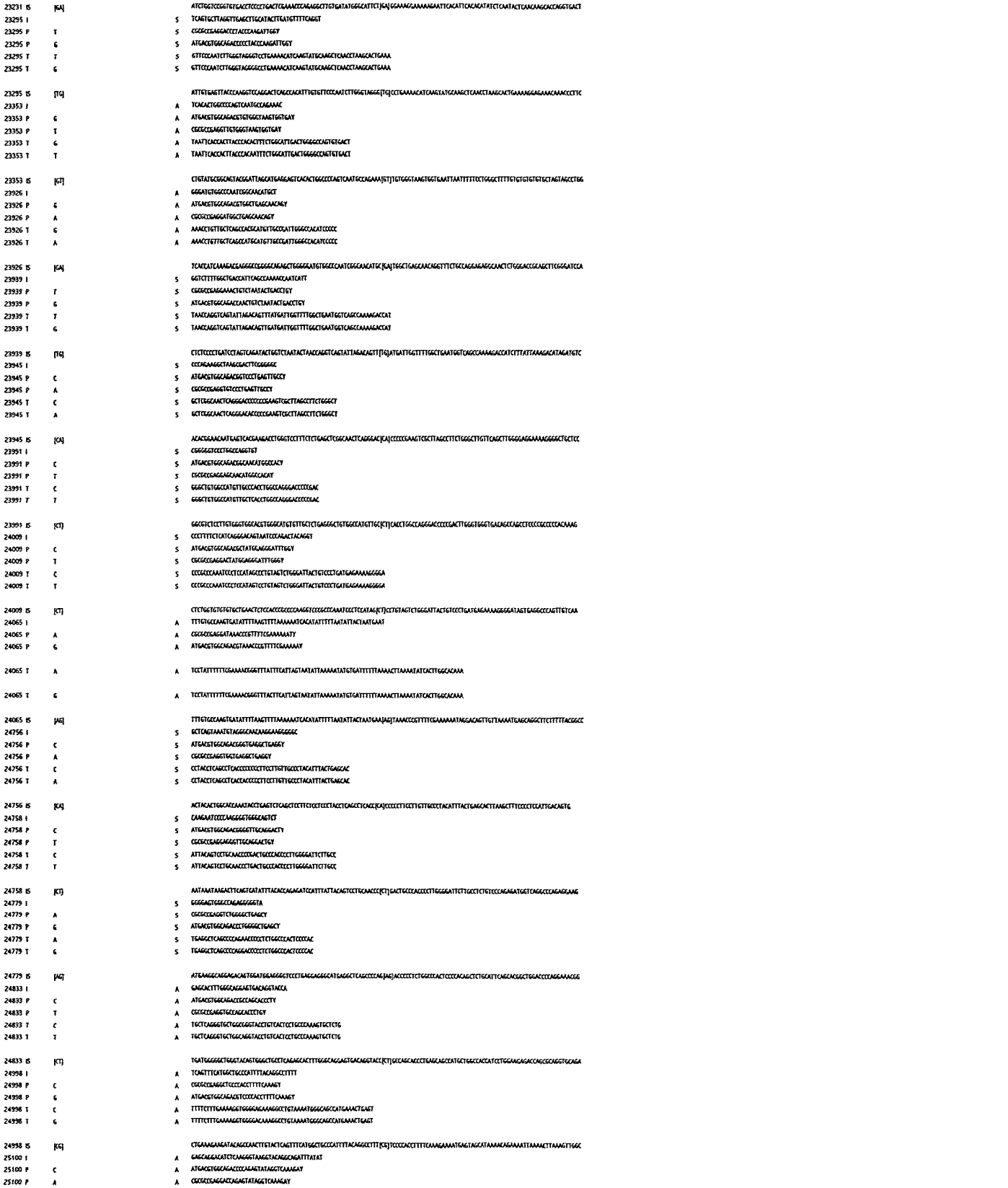
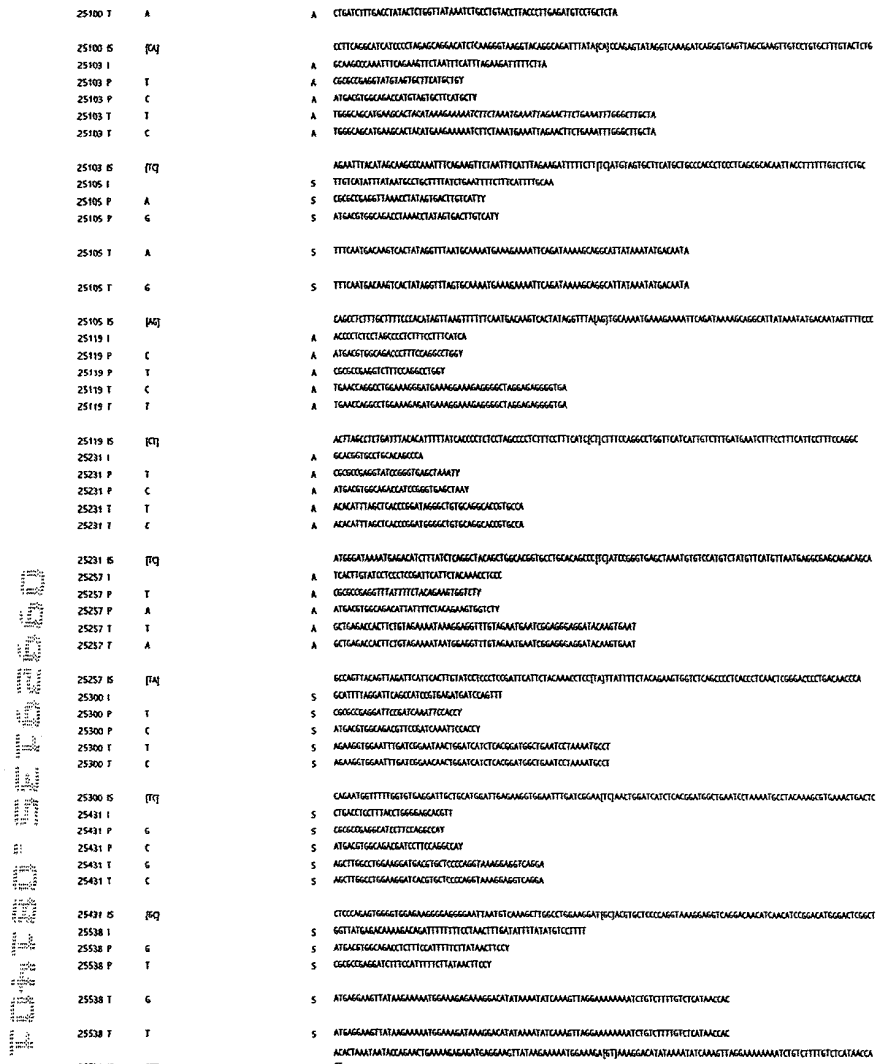


FIGURE 129F


21788 I A AGACCCAAGTATTGGTGCTTTCCTTAAGCACATCTCACA
21788 P T A CGCGCCCAGGTGAGACGGGAAGCCT
21788 P C A ATGACGTGGCAGACCGAGACGGGAAGCCT
21788 T T A TGTGGGCTTCCCGTCTCTGGTGAGATGTGCTTAAGGAAAGCACCAATACTTGGGTCTAA
21788 T C A TGTGGGCTTCCCGTCTCTGGTGAGATGTGCTTAAGGAAAGCACCAATACTTGGGTCTAA
21788 IS [TC] TCTCTGATTGAATGCACTACTTAGACCCAAGTATTGGTGCTTTCCTTAAGCACATCTCACTCTGAGACGGGAAGCCCACATCCTCTCGTCACTTCCTCAAAACAAACATCTGATTTGGCCCCA
21867 I S GCAGGAGGGAAGTGGCAGGGAGGC
21867 P C S ATGACGTGGCAGACGGGAGGGAAGAGGAY
21867 P A S CGCGCCCAGGTGAGGGGAAGAGGAY
21867 T C S CTCCTCCTCTTCCCCTCCCCCTCCCCTCCCACTTCCCTCCTCCCC
21867 T A S CTCCTCCTCTTCCCCTCCACCTCCCTCCCACTTCCCTCCTCCC
21867 IS [CA] CTCCTCTCCTCCTCCTCTTCCCCTCCCATCCTCCCCCTCCCTCCTCCTCTCTTCCCCTCCTCACTCTCTCCTCCCCTCCCTCCTCCCTTCCCTTCCTCCTCTCTCCCTCCCCGCCTC
22072 I S CCAGCTCCATGACTCCTTCATTTAGATCCAGTACTTCTCTCTC
22072 P A S CGCGCCCAGGTATTCTAAAATACTTGTTTGTCTTCCY
22072 P T S ATGACGTGGCAGACAATTCTAAAATACTTGTTTGTCTTCCY
22072 T A S CATAGGAAGACAAACAAGTATTTTAGAATAAGAAGAAGTACTGGATCTAAATGAAGGAGTCATGGAGCTGGAA
22072 T T S CATAGGAAGACAAACAAGTATTTTAGAATTAGAAGAAGAAGTACTGGATCTAAATGAAGGAGTCATGGAGCTGGAA
22072 IS [AT] GCCGTCAAAAACTCATAGTCTTGGTAGAAGAACATAGGAAGACAAACAAGTATTTTAGAATTATAGAAGAAGTACTGGATCTAAATGAAGGAGTCATGGAGCTGGAAGAGCTTGAAGTACCC A
22127 I A GGAAGGACAAAGGCTGATCATGAAAGAAGCTTTGGCA
22127 P C A ATGACGTGGCAGACCCTTCTCAGCCAGGAGY
22127 P T A CGCGCCGAGGTCTTCTCAGCCAGGAGY
22127 T C A CCTTCTCCTGGCTGAGAAGGCCAAAGCTTCTTTCATGATCAGCCTTTGTCCTTCCTG
22127 T T A CCTTCTCCTGGCTGAGAAGAGCCAAAGCTTCTTTCATGATCAGCCTTTGTCCTTCCTG
22127 IS [CT] AGTGTCCCTTCACTCCTTCTTCCAGGAAGGACAAAGGCTGATCATGAAAGAAGCTTTGGC[CT]CTTCTCAGCCAGGAGAAGGCACTGGAGGAATCTGCTTAACAAATTCCCATGTATTTGATA
22308 I A CCTGCCATCCTGTTCCCAGAGCCTACTGAAC
22308 P T A CGCGCCCAGGTCAAGGTAAGGGAGGCY
22308 P G A ATGACGTGGCAGACGGAAGGTAAGGCAGGCY
22308 T T A CCTGGCCTCCCTTACCTTCATTCAGTAGGCTCTGGGAACAGGATGGCAGGTC
22308 T G A CCTGGCCTCCCTTACCTTCTTCAGTAGGCTCTGGGAACAGGATGGCAGGTC
22308 IS [TG] GCAGCGGCTCTCAGCCCTGCTAGGGACAGACCTGCCATCCTGTTCCCAGAGCCTACTGAA[TG]GAAGGTAAGGGAGGCCAGGAAGCACTGGTGACACGTGAAAAGCCCCAGGCTCACAGCCC
22446 I S TGATCTTCCCACCTGTAGTGTTGTACTCTTCTAATCTGTTGACTT
22446 P T S CGCGCCGAGGACACGGCAAGCAGAY
22446 P C S ATGACGTGGCAGACGCACGGCAAGCAGY
22446 T T S TCACTCTGCTTGCCGTGTAGTCAACAGATTAGAAGAGTACAACACTACAGGTGGGAAGATCAAG
22446 T C S TCACTCTGCTTGCCGTGCAGTCAACAGATTAGAAGAGTACAACACTACAGGTGGGAAGATCAAG
22446 IS [TC] AAGATTCTTAAGCAGGAAAGCAACATGCTCATATTTTCTAGAGATCACTCTGCTTGCCGTG[TC]AGTCAACAGATTAGAAGAGTACAACACTACAGGTGGGAAGATCAAGGATACTATGATTGT
22543 I S GTTGCCTTGGAACCACGCAGAGAGTAAACTCAC
22543 P C S ATGACGTGGCAGACGCCACTTTGCTCAGAGY
22543 P A S CGCGCCGAGGTCCACTTTGCTCAGAGAY
22543 T C S CACTTCTCTGAGCAAAGTGGCTGAGTTTACTTCTGCGTGGGTTCCAAGGCAACAG
22543 T A S CACTTCTCTGAGCAAAGTGGATGAGTTTACTTCTGCGTGGGTTCCAAGGCAACAG
22543 IS [CA] CATTACAGCCAACATGTAACTAGGAACAGACCATGTCAAACACTTCTCTGAGCAAAGTGG[CA]TGAGTTTACTTCTGCGTGGGTTCCAAGGCAACAGTGTGATCAACAATGAGTTCTTCCCTG ABH
22758 I S CAGGGTCTGGGCAGGCTGCCCT
22758 P C S ATGACGTGGCAGACGGTATCCCCCAGCACY
22758 P T S CGCGCCGAGGAGTATCCCCCAGCACY
22758 T C S TGGAGTGCTGGGGGATACCGGGCAGCCTGCCCAGACCCTGCT
22758 T T S TGGAGTGCTGGGGGATACTGGGCAGCCTGCCCAGACCCTGCT
22758 IS [CT] TGTGCTGTCAGATTTCAGAGGAAGGGCGGACTGCACTGTAAGTGCAGTGCTGGGGGATAC[CT]GGGCAGCCTGCCCAGACCCTGCTTCCTGCTCCGTCTGCTGCAGCTCCTGGAGATGTCAGT
22809 I S CTGCAACTGCACGTCCCCATGCTCCC
22809 P A S CGCGCCGAGGTGCAGTCCCACCAGY
22809 P C S ATGACGTGGCAGACGGGCAGTCCCACCAGY
22809 T A S CTGTCTGGTGGGACTGCAGCAGCATGGGGCAGTGCAGTTGCAGGG
22809 T C S CTGTCTGGTGGGACTGCGGCAGCATGGGGCAGTGCAGTTGCAGGG
22809 IS [AC] CTCAGGGCCTGTCCCAGGGAGCATGCCGCTTCCTCAGAGGTGTCTGTCTGGTGGGACTGC[AC]GGAGCATGGGGCAGTGCAGTTGCAGGGGCAGCTGAGCGGCAGGAGGGACCTCCTGGCCAG
22986 I S CTGTGACAGAGCACTCCCCCCAGCAT
22986 P T S CGCGCCGAGGAGGCGCAGGGATGCY
22986 P C S ATGACGTGGCAGACGGGCAGGGATGCY
22986 T T S GGCTGCATCCCTGCCCCTCCTGGGGGGGAGTCCTCGTCACAGCG
22986 T C S GGCTGCATCCCTGCCCCTCCTGGGGGGGAGTCCTCGTCACAGCG
22986 IS [TC] GTGTAGGGGTGACCACCTGCCTCCTTGGGATGACTTCTGCCCACGGCTGCATCCCTGCCC[TC]TCCTGGGGGGAGTCCTCGTCACAGCGTCTCCAGCACCCCACTAGGGCCCACCACTCAGCA
23011 I A CGCACTCCGGAGAAGAAGCTCCTTCTCAT
23011 P G A ATGACGTGGCAGACGCCGCCCAGGAGY
23011 P C A CGCGCCGAGGCCGCCCCAGGAGY
23011 T G A AGCTCTCCTGGGCGGCTGAAGAAGGAGCTTCTTCTCCGGAGTGCGCC
23011 T C A AGCTCTCCTGGGCGGCTGAAGAAGGAGCTTCTTCTCCGGAGTGCGCC
23011 IS [GC] AGCTAGTTAGGTCCGCAGGCGCCACCGCCGCGCCACTCCGGAGAAGAAGCTCCTTCTTCA[GC]CCGCCCAGGAGAGCTCCTCGAGAAAAGATGCCGCCGCCTCAACAGCAACCCACTTCCGCTT
23059 I S CAGAATAGCTAGATGTGGCTATATAAATCAGCTTGTACTTTTCTTTCTTATAT
23059 P T S CGCGCCGAGGATATCTTATTTTACATTGACTGAGTGY
23059 P C S ATGACGTGGCAGACGTATCTTATTTTACATTGACTGAGTGY
23059 T T S ACAACACTCAGTCAATGTAAAATAAGATATTATAAGAAAGAAAAGTACAAGCTGATTTATATACCCACATCTAGCTATTCTGAA
23059 T C S ACAACACTCAGTCAATGTAAAATAAGATACTATAAGAAAGAAAAGTACAAGCTGATTTATATACCCACATCTAGCTATTCTGAA
23059 IS [TC] CAGGACCAAATACTACTGAGACTAAATGGAAACAACACTCAGTCAATGTAAAATAAGATA[TC]TATAAGAAAGAAAAGTACAAGCTGATTTATATACCCACATCTAGCTATTCTGAAGAAAGC
23196 I A GCCTTGGTGTTTACCGTTTTTGCTTTTGAGCAGAAAATTAGGT
23196 P G A ATGACGTGGCAGACGGAATTTCCCAGGCGT
23196 P A A CGCGCCGAGGAGAAATTTCCCAGGCGTY
23196 T G A CCACACGCCTGGGAAATTCCCCTAATTTTCTGCTCAAAGCAAAAACGGTAAACACCAAGCAA
23196 T A A CCACACGCCTGGGAAATTCCCCTAATTTTCTGCTCAAAGCAAAAACGGTAAACACCAAGCAA
23196 IS [GA] TGGCAACGGCCGTTTGTTGCCTTGGTGTTTACCGTTTTTGCTTTTGAGCAGAAAATTAGG[GA]GAATTTCCCAGGCGTGTGGATAACGCTGTGTACAGAATCAAGTGTTCTCAGGGACGTCAC
23231 I A CGAAACCCAGAGGCTTGTGATATGGGCATTCTT
23231 P G A ATGACGTGGCAGACGGGAAGGAAAAAGAATTCACY
23231 P A A CGCGCCGAGGAGGAAAGGAAAAAGAATTCACY
23231 T G A GAATGTGAATTCTTTTTCCTTTCCCAGAATGCCCATATCACAAGCCTCTGGGTTTCGAG
23231 T A A GAATGTGAATTCTTTTTCCTTTCCTACAGAATGCCCATATCACAAGCCTCTGGGTTTCGAG




25100 T A A CTGATCTTTGAGCTATACTCTGGTTATAAATCTGCCTGTACCTTACCCTTGAGATGTCCTGCTCTA
25100 IS [CA] CCTTCAGGCATCATCCCCTAGAGCAGGACATCTCAAGGGTAAGGTACAGGCAGATTTATA[CA]CCAGAGTATAGGTCAAAGATCAGGGTGAGTTAGCGAAGTTGTCCTGTGCTTTGTACTCTG
25103 I A GCAAGCCCAAATTTCAGAAATTCTAATTTCATTTAGAAGATTTTTCTTA
25103 P T A CGCGCCGAGGTATGTAGTGCTTCATGCTGY
25103 P C A ATGACGTGGCAGACCATGTAGTGCTTCATGCTY
25103 T T A TGGGCAGCATGAAGCACTACATAAAGAAAAATCTTCTAAATGAAATTAGAACTTCTGAAATTTGGGCTTGCTA
25103 T C A TGGGCAGCATGAAGCACTACATGAAGAAAAATCTTCTAAATGAAATTAGAACTTCTGAAATTTGGGCTTGCTA
25103 IS [TC] AGAATTTACATAGCAAGCCCAAATTTCAGAAGTTCTAATTTCATTTAGAAGATTTTTCTT[TC]ATGTAGTGCTTCATGCTGCCCACCCTCCCTCAGCGCACAATTACCTTTTTGTCTTCTGC
25105 I S TTGTCATATTTATAATGCCTGCTTTTATCTGAATTTTCTTTCATTTTGCAA
25105 P A S CGCGCCGAGGTTAAACCTATAGTGACTTGTCATTY
25105 P G S ATGACGTGGCAGACCTAAACCTATAGTGACTTGTCATY
25105 T A S TTTCAATGACAAGTCACTATAGGTTTAATGCAAAATGAAAGAAAATTCAGATAAAAGCAGGCATTATAAATATGACAATA
25105 T G S TTTCAATGACAAGTCACTATAGGTTTAGTGCAAAATGAAAGAAAATTCAGATAAAAGCAGGCATTATAAATATGACAATA
25105 IS [AG] CAGCCTCTTGCTTTTCCCACATAGTTAAGTTTTTTCAATGACAAGTCACTATAGGTTTA[AG]TGCAAAATGAAAGAAAATTCAGATAAAAGCAGGCATTATAAATATGACAATAGTTTTCCC
25119 I A ACCCCTCTCCTAGCCCCTCTTTCCTTTCATCA
25119 P C A ATGACGTGGCAGACCCTTTCCAGGCCTGGY
25119 P T A CGCGCCGAGGTCTTTCCAGGCCTGGY
25119 T C A TGAACCAGGCCTGGAAAGGATGAAAGGAAAGAGGGGCTAGGAGAGGGGTGA
25119 T T A TGAACCAGGCCTGGAAAGAGATGAAAGGAAAGAGGGGCTAGGAGAGGGGTGA
25119 IS [CT] ACTTAGCCTCTGAYTTACACATTTTTATCACCCCTCTCCTAGCCCCTCTTTCCTTTCATC[CT]CTTTCCAGGCCTGGTTCATCATTGTCTTTGATGAATCTTTCCTTTCATTCCTTTCCAGGC
25231 I A GCACGGTGCCTGCACAGCCCA
25231 P T A CGCGCCGAGGTATCCGGGGTGAGCTAAATY
25231 P C A ATGACGTGGCAGACCATCCGGGTGAGCTAAY
25231 T T A ACACATTTAGCTCACCCGGATAGGGCTGTGCAGGCACCGTGCCA
25231 T C A ACACATTTAGCTCACCCGGATGGGGCTGTGCAGGCACCGTGCCA
25231 IS [TC] ATGGGATAAAATGAGACATCTTTATCTCAGCCTACAGCTGGCAGGTGCCTGCACAGCCC[TC]ATCCGGGTGAGCTAAATGTGTCCATGTCTATGTTCATGTTAATGAGGCGAGCAGACAGCA
25257 I A TCACTTGTATCCTCCCTCCGATTCATTCTACAAACCTCCC
25257 P T A CGCGCCGAGGTTTATTTTCTACAGAAGTGGTCTY
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25300 I S GCATTTTAGGATTCAGCCATCCGTGAGATGATCCAGTTT
25300 P T S CGCGCCGAGGATTCCGATCAAATTCCACCY
25300 P C S ATGACGTGGCAGACGTTCCGATCAAATTCCACCY
25300 T T S AGAAGGTGGAATTTGATCGGAATAACTGGATCATCTCACGGATGGCTGAATCCTAAAATGCCT
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25300 IS [TC] CAGAATGGTTTTTGGTGTGAGGATTGCTGCATGGATTGAGAAGGTGGAATTTGATCGGAA[TC]AACTGGATCATCTCACGGATGGCTGAATCCTAAAATGCCTACAAAGCGTGAAACTGACTC
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25431 P G S CGCGCCGAGGCATCCTTCCAGGCCAY
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25431 T G S AGCTTGGCCTGGAAGGATGACGTGCTCCCCAGGTAAAGGAAGGTCAGGA
25431 T C S AGCTTGGCCTGGAAGGATCACGTGCTCCCCAGGTAAAGGAAGGTCAGGA
25431 IS [GC] CTCCCAGAGTGGGGTGGAGAAGGGGAGGGGAATTAATGTCAAAGCTTGGCCTGGAAGGAT[GC]ACGTGCTCCCCAGGTAAAGGAAGGTCAGGACAACATCAACATCCGGACATGGGACTCGGCT
25538 I S GGTTATGAGACAAAAGACAGATTTTTTTTCCTAACTTTGATATTTTATATGTCCTTT
25538 P G S ATGACGTGGCAGACCTCTTCCATTTTTCTTATAACTTCCY
25538 P T S CGCGCCGAGGATCTTTCCATTTTTCTTATAACTTCCY
25538 T G S ATGAGGAAGTTATAAGAAAAATGGAAAGAGAAAGGACATATAAAATATCAAAGTTAGGAAAAAAAATCTGTCTTTTGTCTCATAACCAC
25538 T T S ATGAGGAAGTTATAAGAAAAATGGAAAGATAAAGGACATATAAAATATCAAAGTTAGGAAAAAAAATCTGTCTTTTGTCTCATAACCAC
25538 IS [GT] ACACTAAATAATACAGAACTGAAAACAGAAGATGAGGAAGTTATAAGAAAAATGGAAAGA[GT]AAAGGACATATAAAATATCAAAGTTAGGAAAAAAAATCTGTCTTTTGTCTCATAACCA
CT
25717 I A ACCCGAAAGGCGCACCCCTGTTAGAAT
25717 P G A ATGACGTGGCAGACGCCGCGCCCCTY
25717 P A A CGCGCCGAGGACCGCGCGCCTCY
25717 T G A ACTGGAGGGCGCCGCTCTACAAGGGGTGCGCCTTTCGGGTGA
25717 T A A ACTGGAGGGCGCCGCTTCTACAGGGGTGCGCCTTTCGGGTCA
25717 IS [CA] ACACACGCCTCCCAAAGTGGACGACCAGGCCTCCTGACCCAAAGCCGCACCCCTGTTAGAAG[CA]CCGCGCCCTCGAGTGGCCTGGCGCTGCCGCTCCTCCGCCATCAGCGTGACTCTCTCTCA
25729 I S AAGAGGCAGGTCCAGAGACAGGGTGAT
25729 P C S ATGACGTGGCAGACGGAGGAAAAGAGAGGCCY
25729 P T S CGCGCCGAGGAGGAAAAGAGAGGCCY
25729 T C S CTGGGGCCTCTCTTTTCCTCCTGACCCTCTCTCTGGACCTGGCCTCTTGC
25729 T T S CTGGGGCCTCTCTTTTCCTCTGACCCTCTCTCTGGACCTGGCCTCTTGC
25729 IS [CT] GAGCTTTTCTGATGAGCACTCACCTCTCACCCTCAAACCCCTGGGGCCTCTCTTTTCCTC[CT]TGACCCTCTCTCTGGACCTGGCCTCTTGCTCTAGGTTCCCAGTTTTGGTCCCAGTGCTGG
25745 I A CATGATTGCTTGGTCTGAGGTCTGCCAGGTCC
25745 P G A ATGACGTGGCAGACGATTGCAGTCTTTACCTCTTY
25745 P T A CGCGCCGAGGTATTGCAGTCTTTACCTCTTTY
25745 T G A GGTCAAAGAGGTAAAGACTGCAATCGACCTGGCAGACCTCAGACCAAGCAATCATGCG
25745 T T A GGTCAAAGAGGTAAAGACTGCAATAGACCTGGCAGACCTCAGACCAAGCAATCATGCG
25745 IS [GT] GTTTCCATTTCTGCAATTGCCTTAAAGGCGCATGATTGCTTGGTCTGAGCTCTGCCAGGTC[GT]ATTGCAGTCTTTACCTCTTTGACCAGAAGTAATGGGCTTGAATTTCCTGGGTATGTGAA
25951 I S GTGACTGTTTGGTTCCTCTCCAGCCACCCC
25951 P A S CGCGCCGAGGTTAGTGGTACTCTAAACGCAY
25951 P C S ATGACGTGGCAGACGTAGTGGTACTCTAAAGCCY
25951 T A S GTGGTGCGTTTAGAGTACCACTAAGGGTGGCTGGAGAGGAACCAAACAGTCACAT
25951 T C S GTGGTGCGTTTAGAGTACCACTACGGGTGGCTGGAGAGGAACCAAACAGTCACAT
25951 IS [AC] TAGTCCCTGTTTTCTCAGCCCCAGTTGTGTGTGCTCAGTGGTGCGTTTAGAGTACCACTA[AC]GGGTGGCTGGAGAGGAACCAAACAGTCAGATTCCCATCACTCACTGCACCTTCATTCTCA
26091 I A CTCAGCCTGCCCCTCCCAGGGATTAT
26091 P A A CGCGCCGAGGAGAGTCCTCTATAAAGGGGY
26091 P G A ATGACGTGGCAGACGGAGTCCTCTATAAAGGGGY
26091 T A A CAGTCCCCTTTATAGAGGACTCTTAATCCCTGGGAGGGGCAGGCTGAGGT
26091 T G A CAGTCCCCTTTATAGAGGACTCCTAATCCCTGGGAGGGGCAGGCTGAGGT
26091 IS [AC] CAGCTGTGAAGGGGTTAAGAGGCTGGGCCTGCTACCTCAGCCTGCCCCTCCCAGGGATTA[AC]GAGTCCTCTATAAAGGGGACTGTCCACCCAGACAGGCCATGGGGGTAGCAGGGACCCAG
26894 I A ACCACGCCAGGCAAAATCTTTAAATCCAAAGCCT

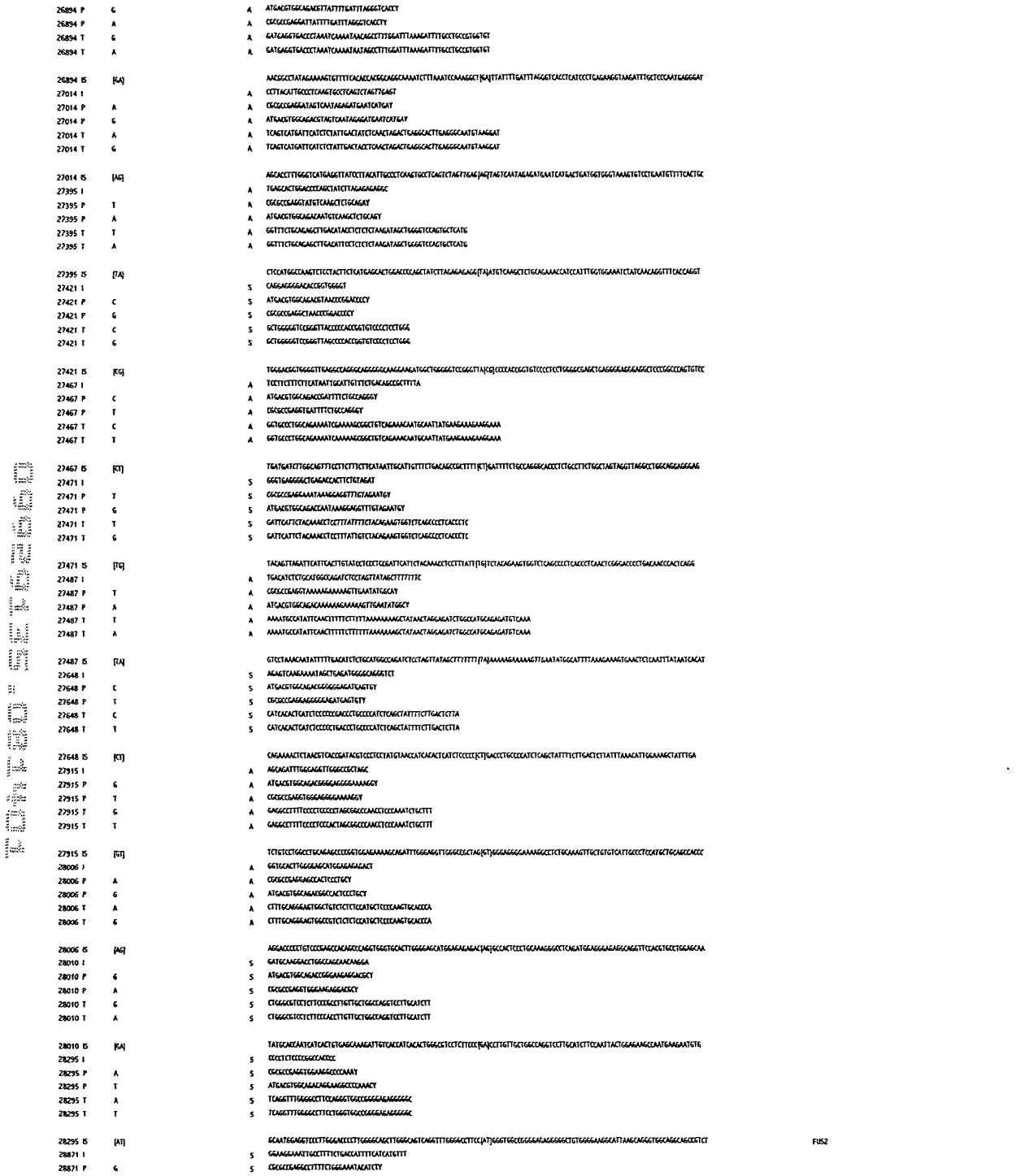
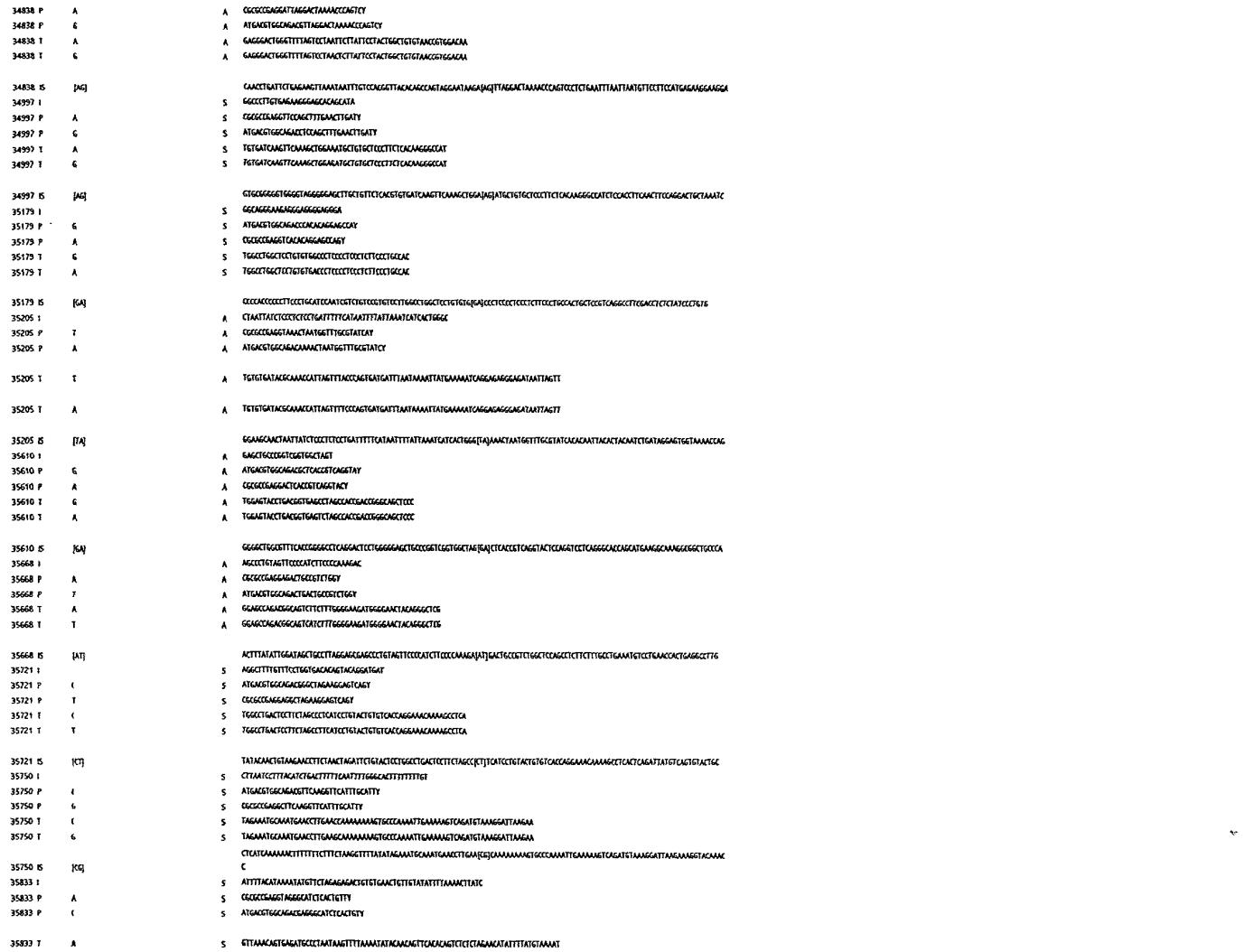
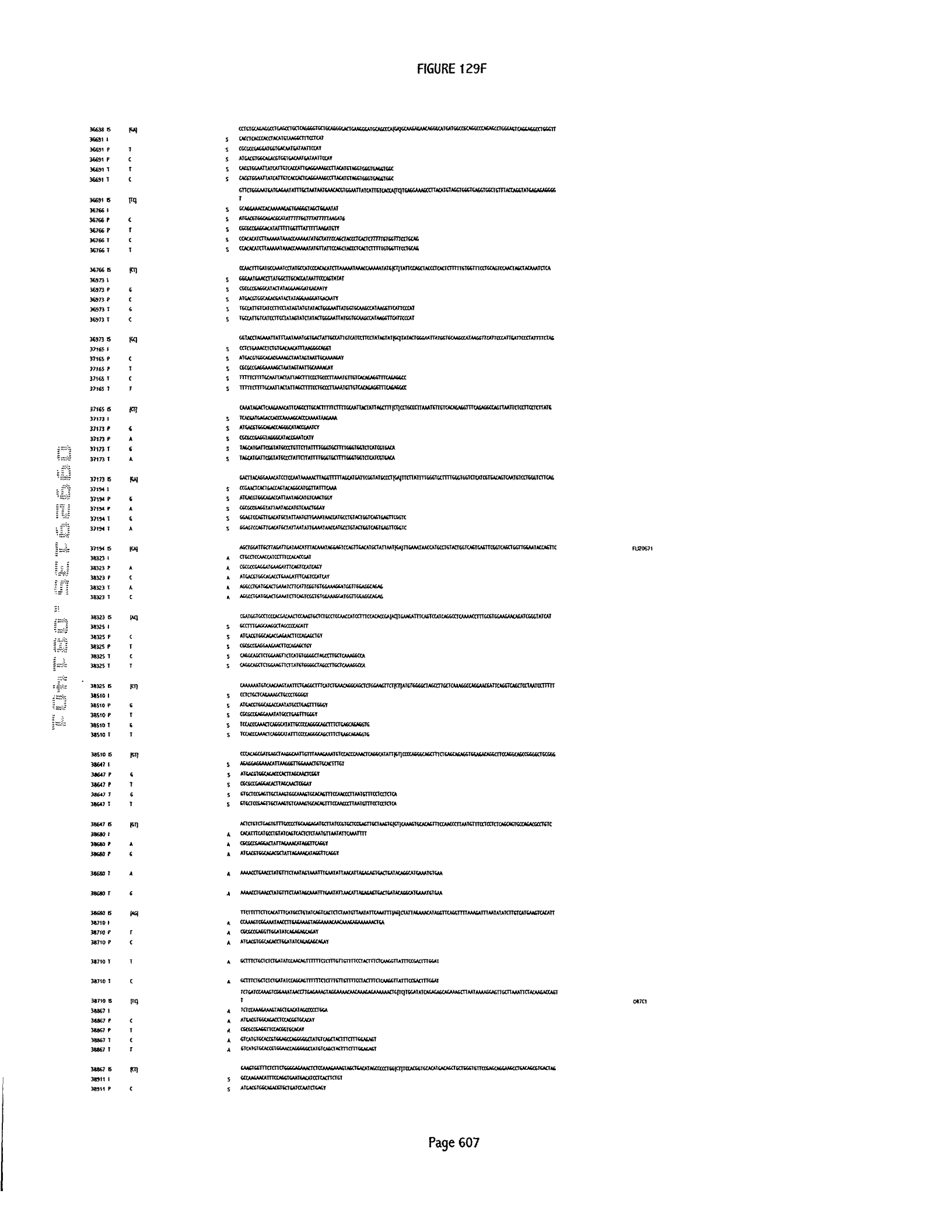


FIGURE 129F

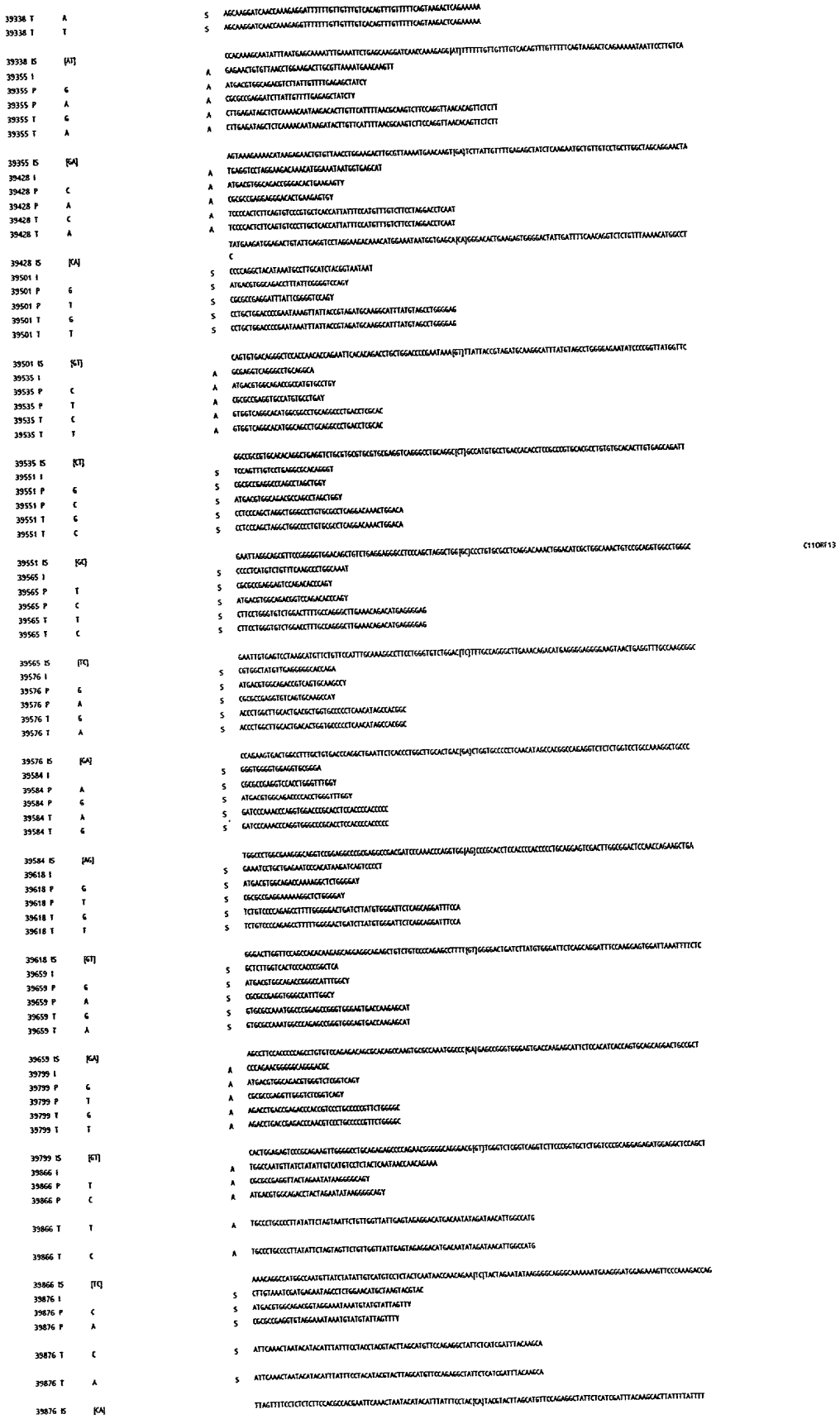


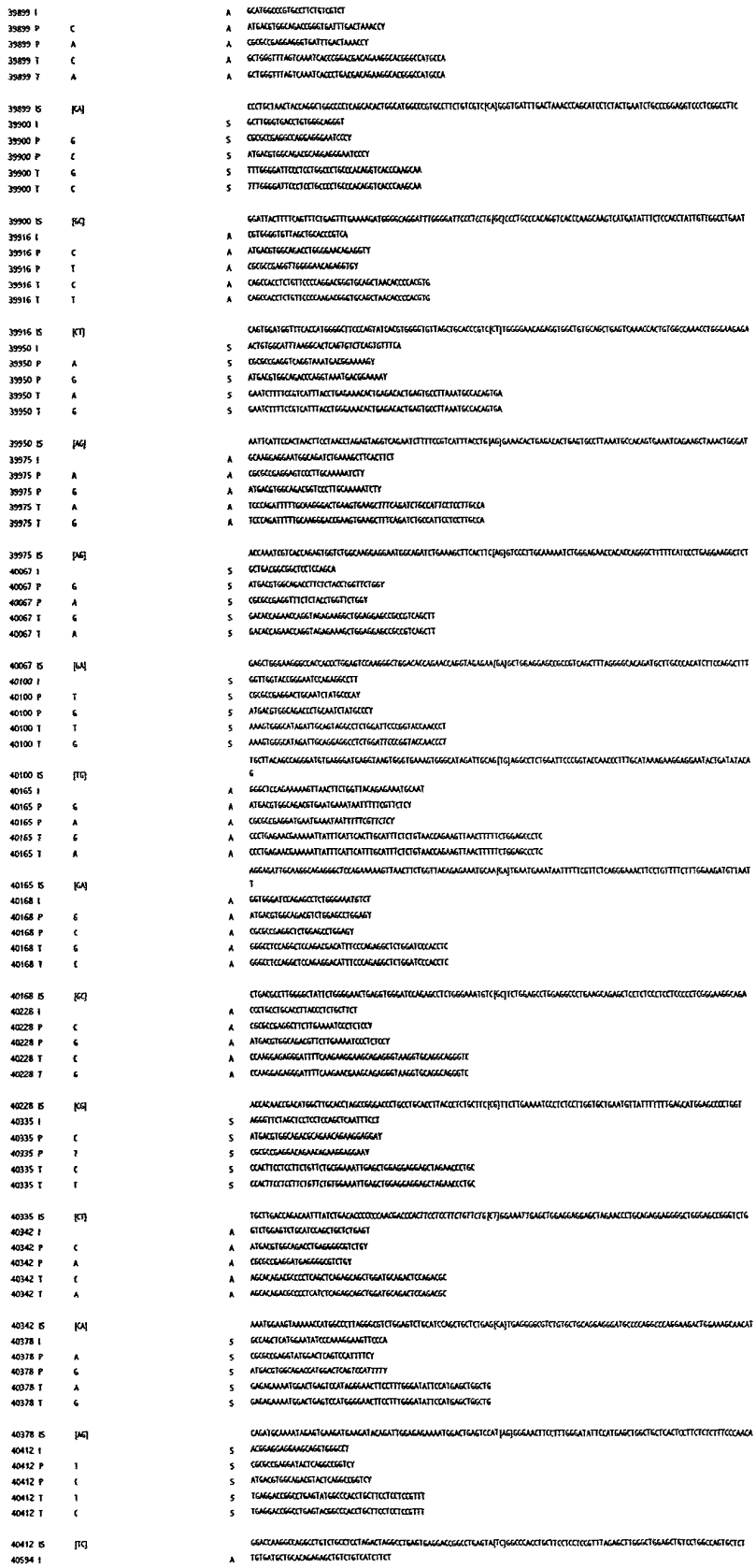


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FIGURE 129F





Replacement Sheet

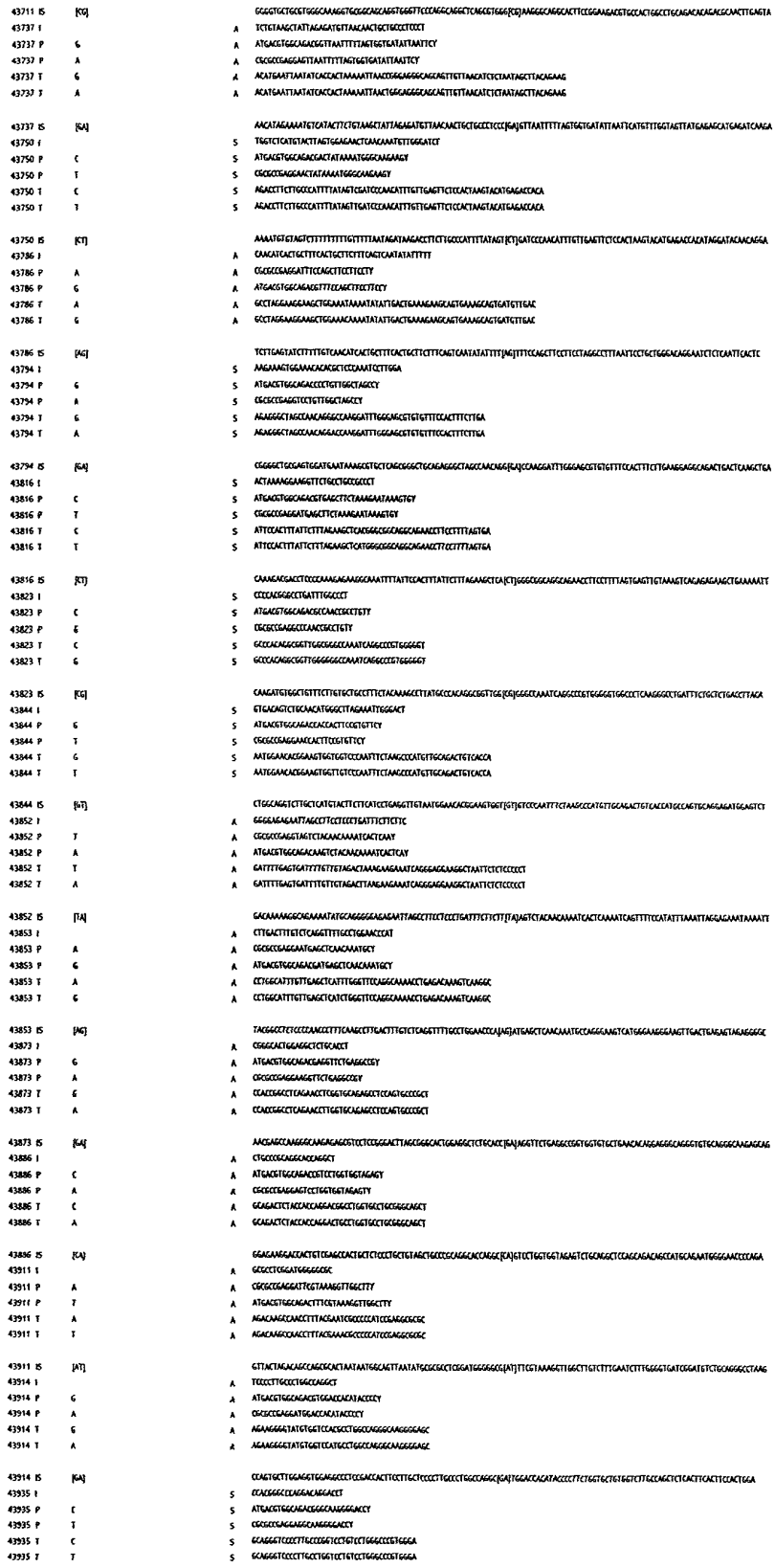
FIGURE 129F





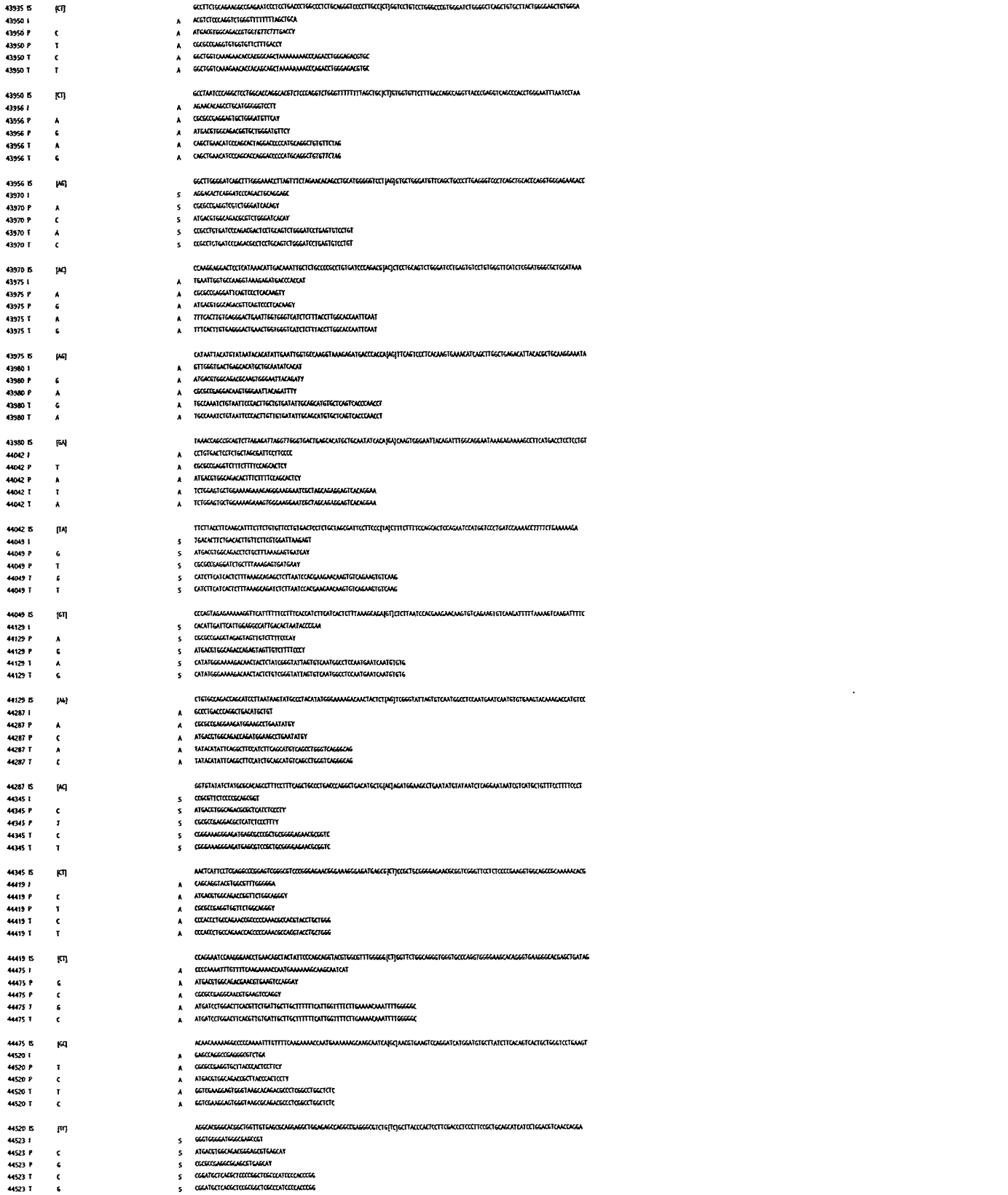






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FIGURE 129F



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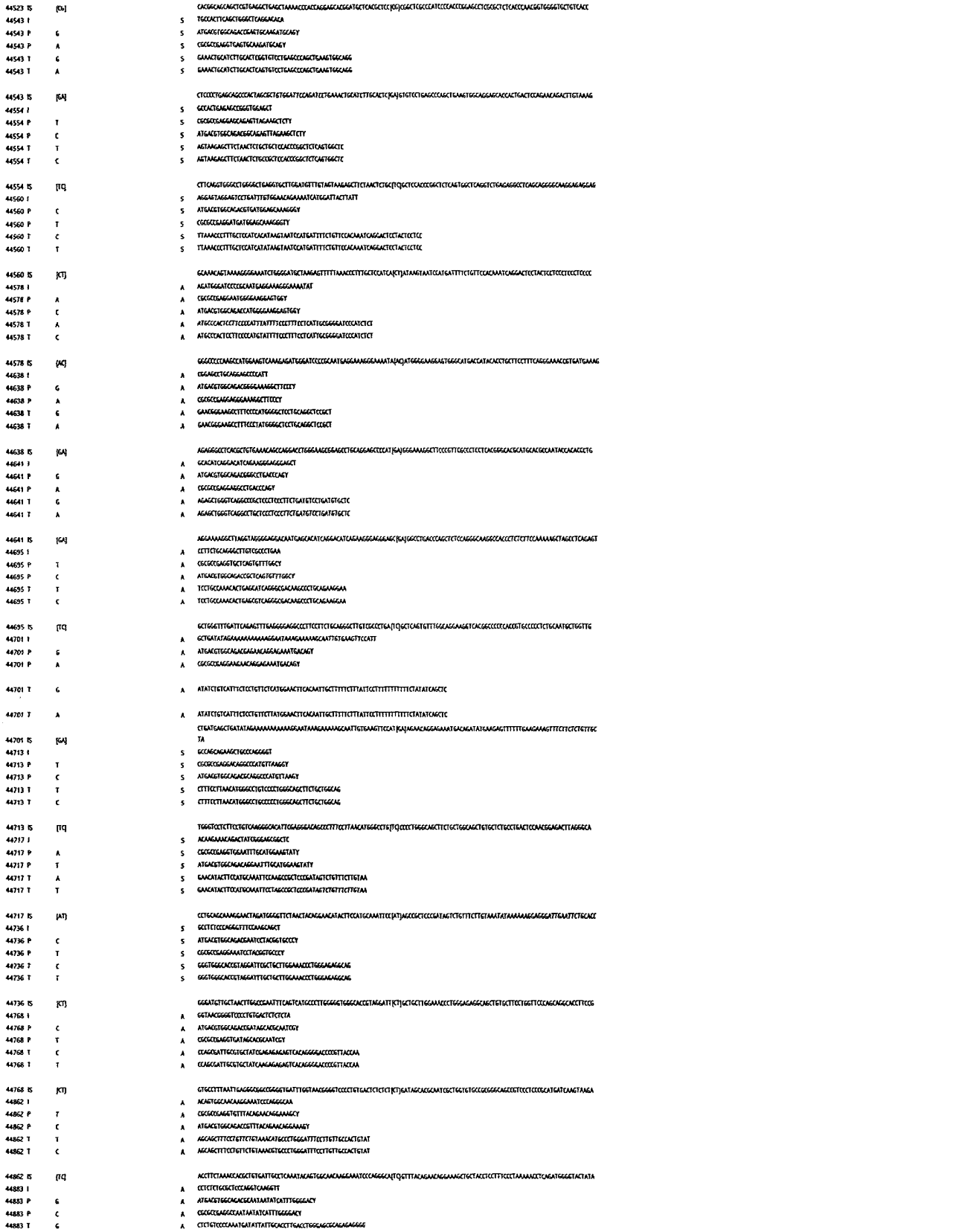
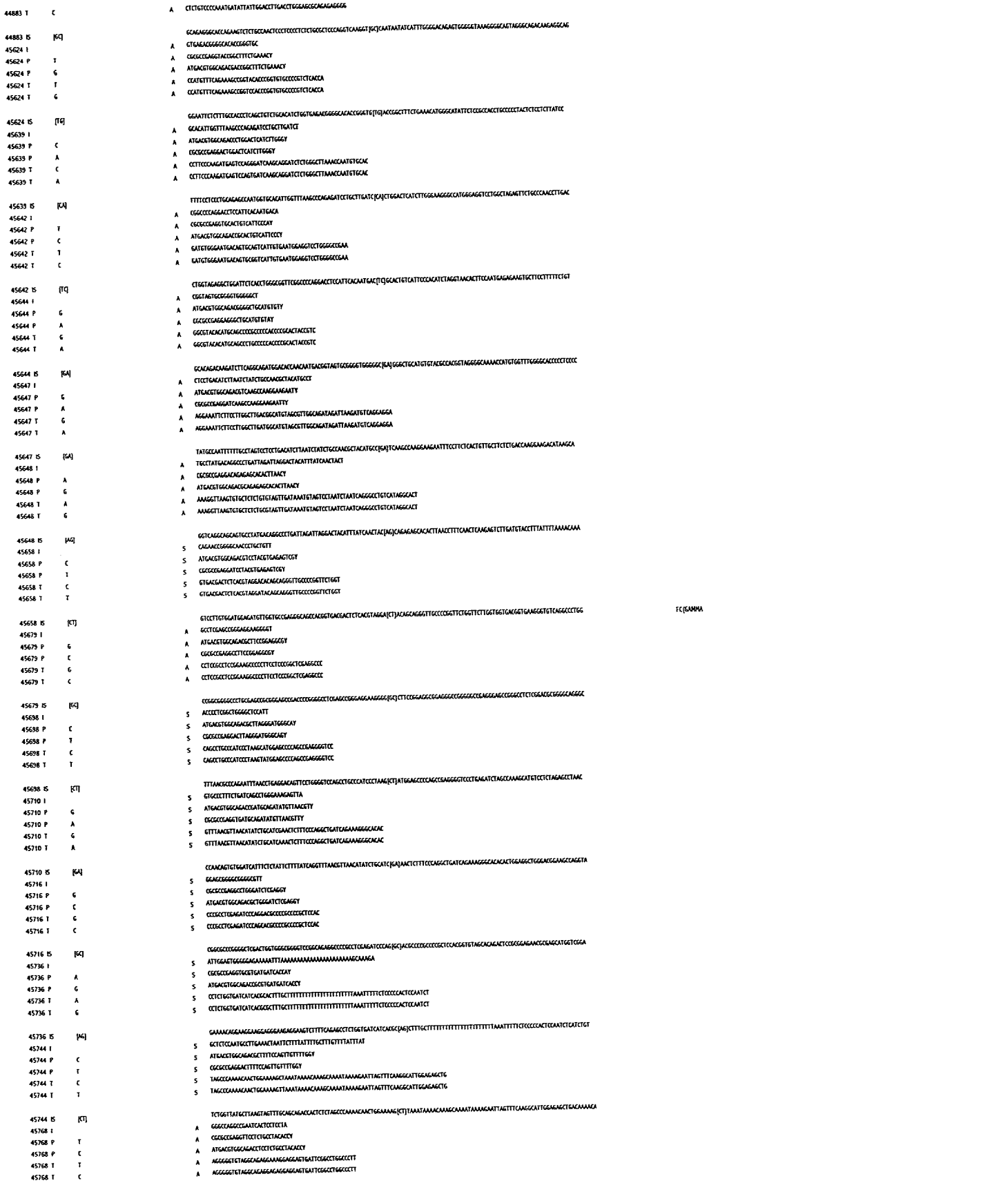


FIGURE 129F



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45768 IS  [TC]                CACAGGGTCGCAGGTGGCTTCTCACTGTCCCCAAAAGGGCCAGGCCGAATCACTCCTCCT[TC]TCCTCTGCCTACACCCCCTCCCACTTCCCCTCCACTCCTCAGAGCCGGCTTCAGACCCAA
45791 I                   S CGCACAGCATGACAGAGCATCCAGGAT
45791 P   C               S ATGACGTGGCAGACGGTTCCTACTGGAATGGAT
45791 P   T               S CGCGCCGAGGAGTTCCTACTGGAATGGAAT
45791 T   C               S TATTTTCCATTCCAGTAGGAACTCCTGGATGCTCTGTGTCATGCTGTGCGTA
45791 T   T               S TATTTTCCATTCCAGTAGGAACTTCCTGGATGCTCTGTGTCATGCTGTGCGTA

45791 IS  [CT]                TCTAGGTTACCTCTCTGGCTCAACAACATCCCAGAACATATTTTCCATTCCAGTAGGAAC[CT]TCCTGGATGCTCTGTGTCATGCTGTGCGTAAGTGCCACACCTAGCTGGATTCTCCAAATT
45797 I                   A CCCGTGACACTGGCTCCCCTTTCACTTCT
45797 P   A               A CGCGCCGAGGAGGCTGACCCTGAY
45797 P   C               A ATGACGTGGCAGACCGGCTGACCCTGY
45797 T   A               A GGGTTCAGGGTCAGCCCTGAAGTGAAAGGGGAGCCAGTGTCACGGGAT
45797 T   C               A GGGTTCAGGGTCAGCCCGGAAGTGAAAGGGGAGCCAGTGTCACGGGAT

45797 IS  [AC]                CAGAAAGCAACAGGCAGCCTGTGTCCCACTTATCCCGTGACACTGGCTCCCCTTTCACTTC[AC]GGGCTGACCCTGACCCAAACCTAAGCGCATCAGATTGGCTGAAAACTGGCAGCGAGGCG
45814 I                   A CCATCTCCCACCTAGGGCCTAGGGCT
45814 P   G               A ATGACGTGGCAGACGAGTTTTCTCTTTCCCTGGY
45814 P   A               A CGCGCCGAGGAAGTTTTCTCTTTCCCTGGY
45814 T   G               A AGTCCCAGGGAAAGAGAAAACTCGCCCTAGGCCCTAGGTGGGAAGATGGTT
45814 T   A               A AGTCCCAGGGAAAGAGAAAACTTGCCCTAGGCCCTAGGTGGGAAGATGGTT

45814 IS  [GA]                TGGGTGTGCCTTACTCGATTACAAAAATTTCAAACCATCTTCCCACCTAGGGCCTAGGGC[GA]AGTTTTCTCTTTCCCTGGGACTGAACTATCACAAAGCACTAAAGGGTTTAAGCAAACGTG                FHL2
45832 I                   A CAGACCAGGTGCAGAGGCCCCCT
45832 P   C               A CGCGCCGAGGCGGCCATTCTGGCY
45832 P   G               A ATGACGTGGCAGACGGGCCATTTCTGGCY
45832 T   C               A GTCAGCCAGAAATGGCCCGGGGGCCCTCTGCACCTGGTCTGCA
45832 T   G               A GTCAGCCAGAAATGGCCCGGGGGCCCTCTGCACCTGGTCTGCA

45832 IS  [CG]                TTGGTGGCACTCAGGCACCCTCCTGGCCTCTGGCCTGCAGACCAGGTGCAGAGGCCCC[CG]GGCCATTTCTGGCTGACCACCCAGAAGTTATCGGCAAACAGGCAGCCGTTTCAAGGCCT
45833 I                   A CAAAGAGAGGCATACAGAATACATTCTAAAGCCATGGCAAAATAAACAAGAAATAAA
45833 P   T               A CGCGCCGAGGTAATAATCAATAGCTTCCTCAY
45833 P   C               A ATGACGTGGCAGACCAATAATCCAATAGCTTYCCTCY

45833 T   T               A TTAATGAGGAAAGCTATTGGATTATTATTATTTCTTGTTTATTTTGCCATGGCTTTAGAATGTATTCTGTATGCCTCTCTTTTGCT

45833 T   C               A TTAATGAGGAAAGCTATTGGATTATTGTTATTTCTTGTTTATTTTGCCATGGCTTTAGAATGTATTCTGTATGCCTCTCTTTTGCT

45833 IS  [TC]                GAGCAAAAGAGAGGCATACAGAATACATTCTAAAGCCATGGCAAAATAAACAAGAAATAA[TC]AATAATCCAATAGCTTTCCTCATTAAAGTTTTTTTAAAAACAATCCCAGCATAAAGTTGC
45835 I                   A ACAATCCCAGCATAAAGTTGCAAAGACATTAAATATTGCTTTTAAAAATAA
45835 P   T               A CGCGCCGAGGTAAACAGTTATTGGTGAATTATAGGY
45835 P   C               A ATGACGTGGCAGACCAAACAGTTATTGGTGAATTATAGGY

45835 T   T               A GAGACCTATAATTCACCAATAACTGTTTATATTTTTAAAAGCAATATTTAATGTCTTTGCAACTTTATGCTGGGATTGTTT

45835 T   C               A GAGACCTATAATTCACCAATAACTGTTTGTATTTTTAAAAGCAATATTTAATGTCTTTGCAACTTTATGCTGGGATTGTTT

45835 IS  [TC]                TTTTTTAAAAACAATCCCAGCATAAAGTTGCAAAGACATTAAATATTGCTTTTAAAAATA[TC]AAACAGTTATTGGTGAATTATAGGTCTCAATTAGCTCAAAATAACAGTCTTCAAACATAC      FU11006
45849 I                   A AGTGGAATAACATTTTTAATGTGTGGTTTTACGGTTCAAGGAACTACTTGATGT
45849 P   A               A CGCGCCGAGGATTTTGAGGAAACACTTGCY
45849 P   G               A ATGACGTGGCAGACGTTTTGAGGAAACACTTGCY

45849 T   A               A TCTGGCAAGTGTTTCCTCAAAATCATCAAGTAGTTCCTTGAACCGTAAAACCACACATTAAAAATGTTATTCCACTGA

45849 T   G               A TCTGGCAAGTGTTTCCTCAAACCATCAAGTAGTTCCTTGAACCGTAAAACCACACATTAAAAATGTTATTCCACTGA

45849 IS  [AG]                CATTTTCAGTGGAATAACATTTTAATGTGTGGTTTACGGTTCAAGGAACTACTTGATG[AG]TTTTGAGGAAACACTTGCCAGAAACTAAATTAACGAATAAAGATTTCAGTGCCGCACTT
45876 I                   S GTAGGAGAGGAGGGCTGTTCTGAGCCT
45876 P   T               S CGCGCCGAGGAGGTGGGGTTCTCTGY
45876 P   C               S ATGACGTGGCAGACGGGTGGGGTTCTCTGY
45876 T   T               S CGGTCAGAGAACCCCACCTGGCTCAGAACAGCCCTCCCTCCCTACCT
45876 T   C               S CGGTCAGAGAACCCCACCTGGCTCAGAACAGCCCTCCCTCCCTACCT

45876 IS  [TC]                CCTGGGACCTGCCAAGCCCCAGCACTCCCCAAGGATGTAGAGCGGTCAGAGAACCCCACC[TC]GGCTCAGAACAGCCCTCCCTCCCTACCTGAGCAGGAGACTTGCCGTGCTCCTTTGCAATC
45910 I                   S GGGTAAGAAAGAGACTGAAGCTGCTGAGTAGTTGTTCAAGTAATTC
45910 P   A               S CGCGCCGAGGTCAAATCCTTAAAGGAGCTTY
45910 P   T               S ATGACGTGGCAGACAAATCCTTAAAGGAGCTTY
45910 T   A               S GTTCAAGCTCCTTAAGGATTTGAAATTACTTGAAACAACTACTCAGCAGCTTCAGTCTCTTTCTACGCTG
45910 T   T               S GTTCAAGCTCCTTAAGGATTTGTAATTACTTGAAACAACTACTCAGCAGCTTCAGTCTCTTTCTACGCTG

45910 IS  [AT]                TTCCCAGAATAAACCGTTGAGACCACATTACCTCCAGTTCAAGCTCCTTTAAGGATTTG[AT]AATTACTTGAAACAACTACTCAGCAGCTTCAGTCTCTTTCTTACGCTGTCTTTCCCTGCT
45915 I                   A GGCATGAGTGGCAGCGGCAGAGCCTCAAAA
45915 P   C               A ATGACGTGGCAGACGGCTAGTTTGGGGCAY
45915 P   T               A CGCGCCGAGGTGCTAGTTTGGGGCAY
45915 T   C               A ATTCTGCCCCAAACTAGCGTTTGAGGCTCTGCCGTCCACTCATGCCCC
45915 T   T               A ATTCTGCCCCAAACTAGCATTTGAGGCTCTGCCGTCCACTCATGCCCC

45915 IS  [CT]                TTGAGGGGGTGCCAGGGAAAACAGGTCCCATGGGGCATGAGTGGACGGCAGAGCCTCAAA[CT]GCTAGTTTGGGGCAGAATGAGTGAGCTTTGAGCTCAGGGGTCAGGGCTGAGCAGAGGCA
                              G
45926 I                   A GGAAAGGCGAGGGGAGGGGCCT
45926 P   C               A CGCGCCGAGGCAGGAGAGCCAGTTCTY
45926 P   G               A ATGACGTGGCAGACGAGCAGCAGCTAGTTCTY
45926 T   C               A ACACAGAACTGGCTCTCCTGGGCCCTCCCCTCGCCTTTCCTG
45926 T   G               A ACACAGAACTGGCTCTCCTCGGCCCTCCCCTCGCCTTTCCTG

45926 IS  [CG]                CTGATGAGGCAGGGGTCCGCAGGCGGTGAGCATTGAGCAGGAAAGGCCAGGGGAGGGGCCTCG[CG]AGGAGACCAGTTCTGTGTGAAGAAATTTAGTAGCTGAGACTAGCCAGAGCAGTAAAC
                              C
45931 I                   A GGGACCATTTGAGGAGAGTAGGCTTTATTTTTTTAAACTCCATTCTTAGCTAA
45931 P   C               A ATGACGTGGCAGACAAGACTTAAAATTATCTTCAGTTCTY
45931 P   T               A CGCGCCGAGGTAAGACTTAAAATTATCTTCAGTTCTY

45931 T   C               A GCTGGAAGAACTGAAGATAATTTTAAGTCTTGTAGCTAAGAATGGAGTTTAAAAAAATAAAGCCTACTCTCCTCAAATGGTCCCAT

45931 T   T               A GCTGAAGAACTGAAGATAATTTTAAGTCTTATAGCTAAGAATGGAGTTTAAAAAAATAAAGCCTACTCTCCTCAAATGGTCCCAT

45931 IS  [CT]                ATGGGATGGGACCATTTGAGGAGAGTAGGCTTTATTTTTTTAAACTCCATTCTTAGCTA[CT]AAGACTTAAAATTATCTTCAGTTCTTCCAGCCTCTACAGACACTTGCTCTAAGGAGGGAAG
45958 I                   A TGGCTTGTAGATATGTAAAATGGATAGGAATGGGGTAGGCCT
45958 P   A               A CGCGCCGAGGATAATTGAGGATCATTCAGGAAY
45958 P   G               A ATGACGTGGCAGACTAATTGAGGATCATTCAGGAY
45958 T   A               A ATACTTCCTGAATGATCTCTCAATTATGGCCTACCCCATTCCTATCCATTTTACATATCTACAAGCCAGA
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FIGURE 129F

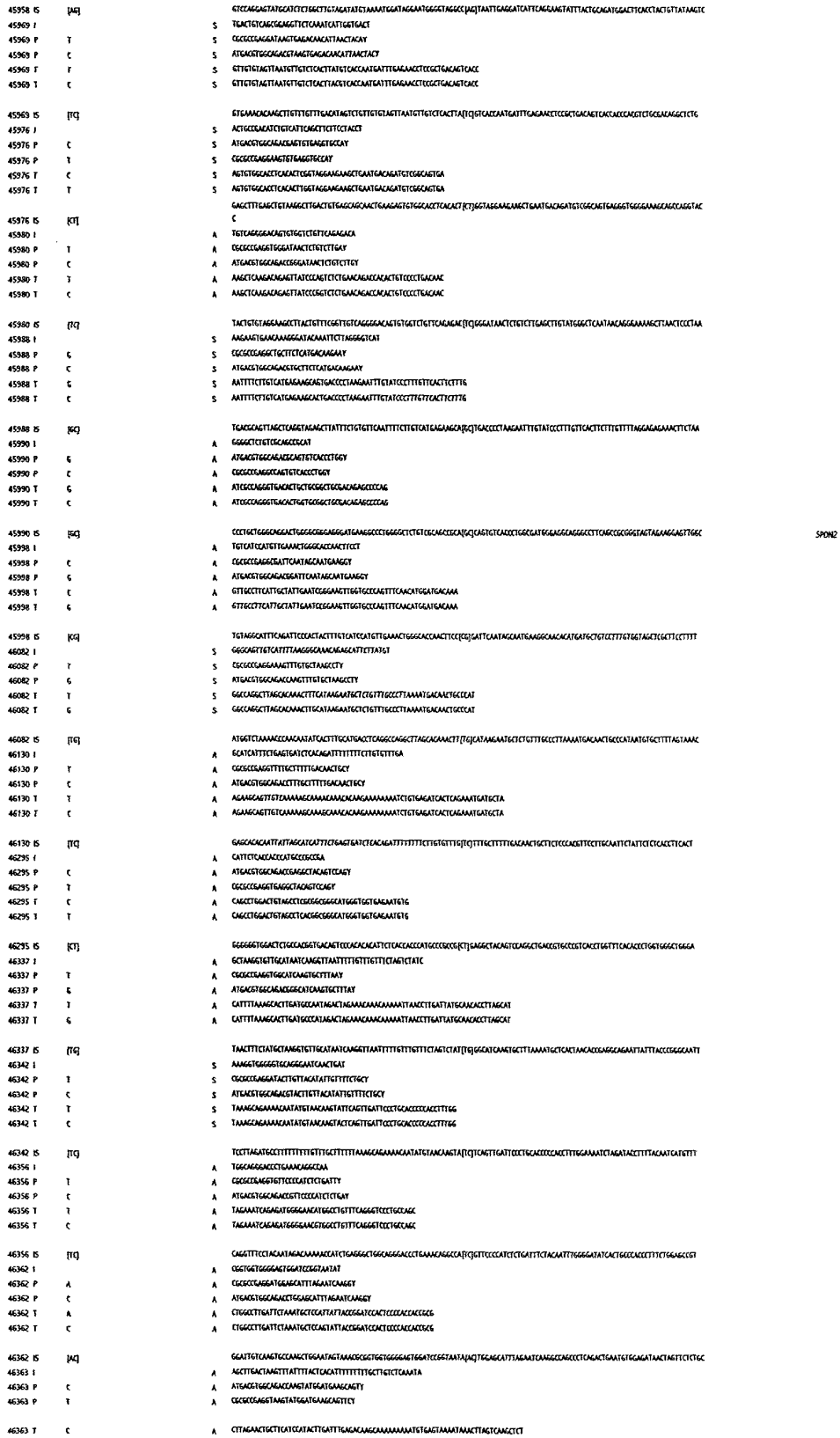


FIGURE 129F

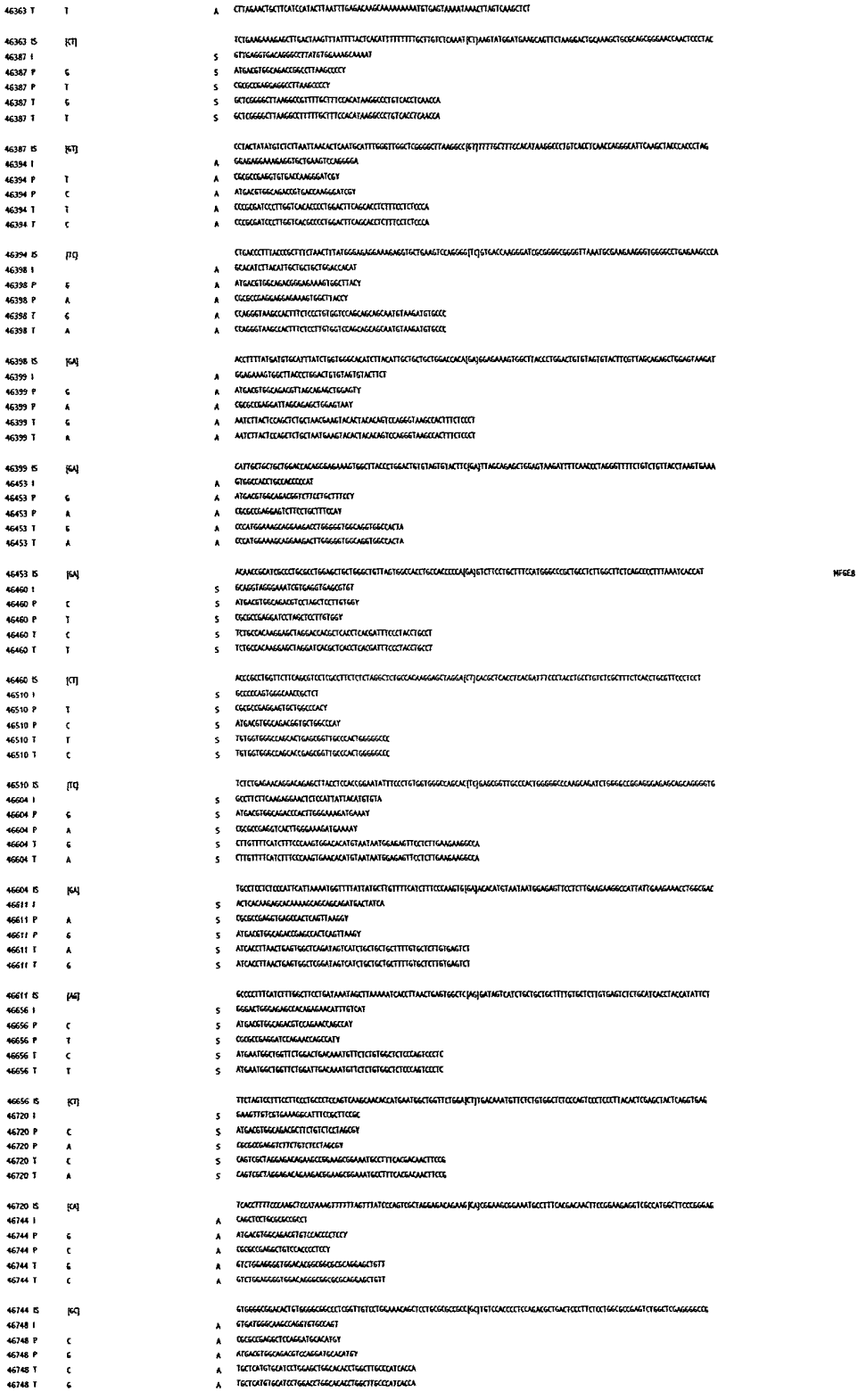
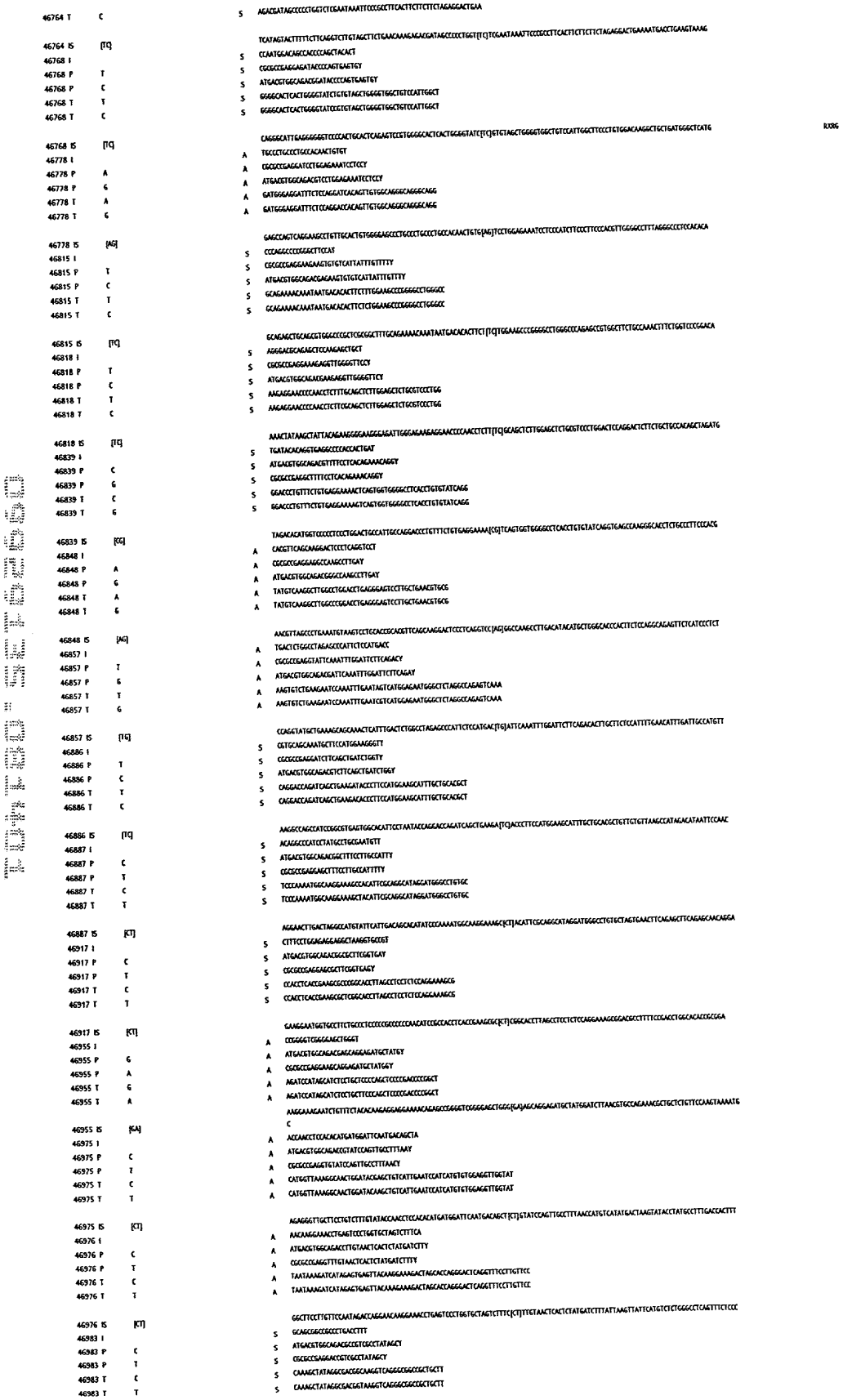


FIGURE 129F



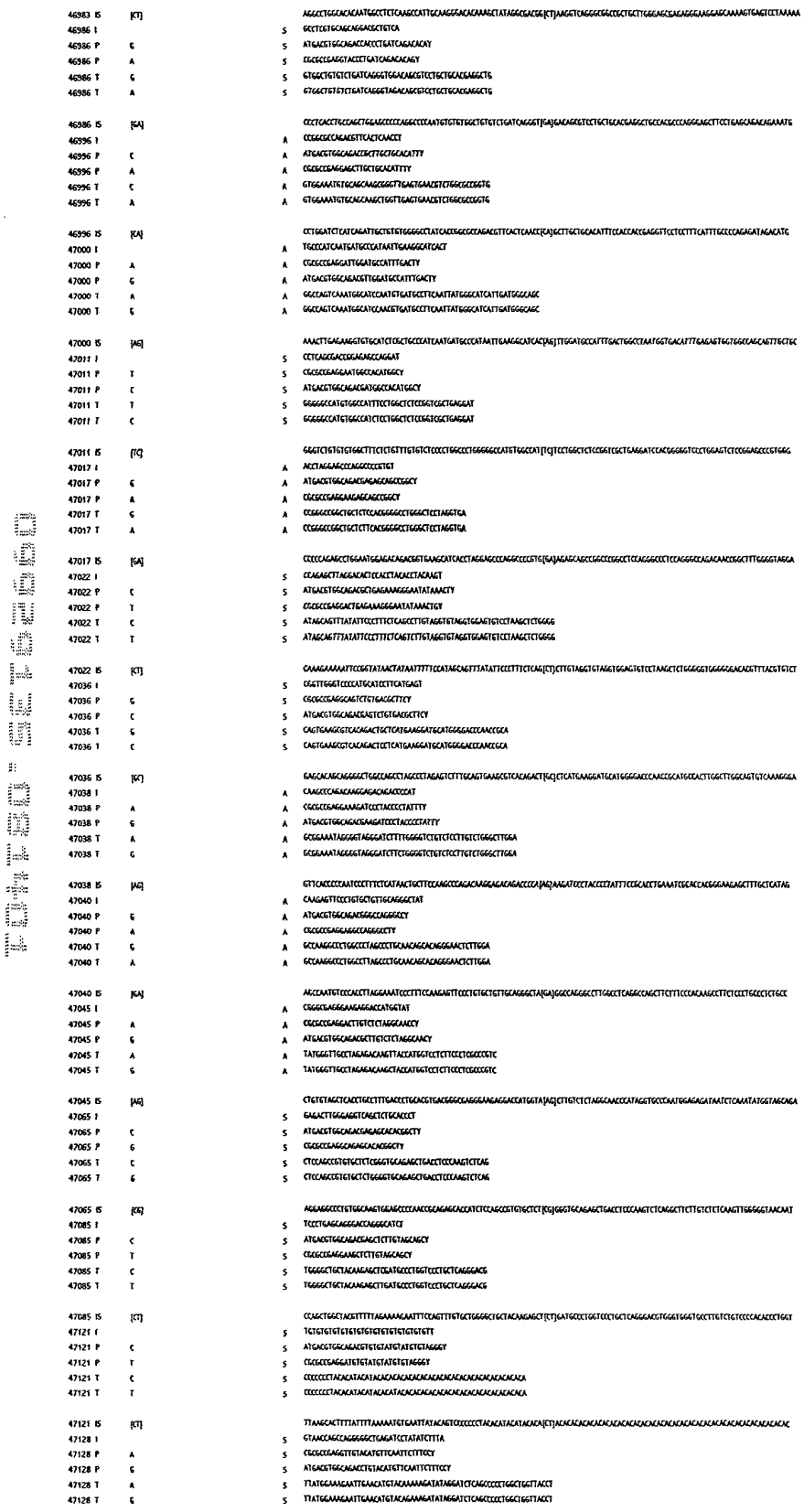
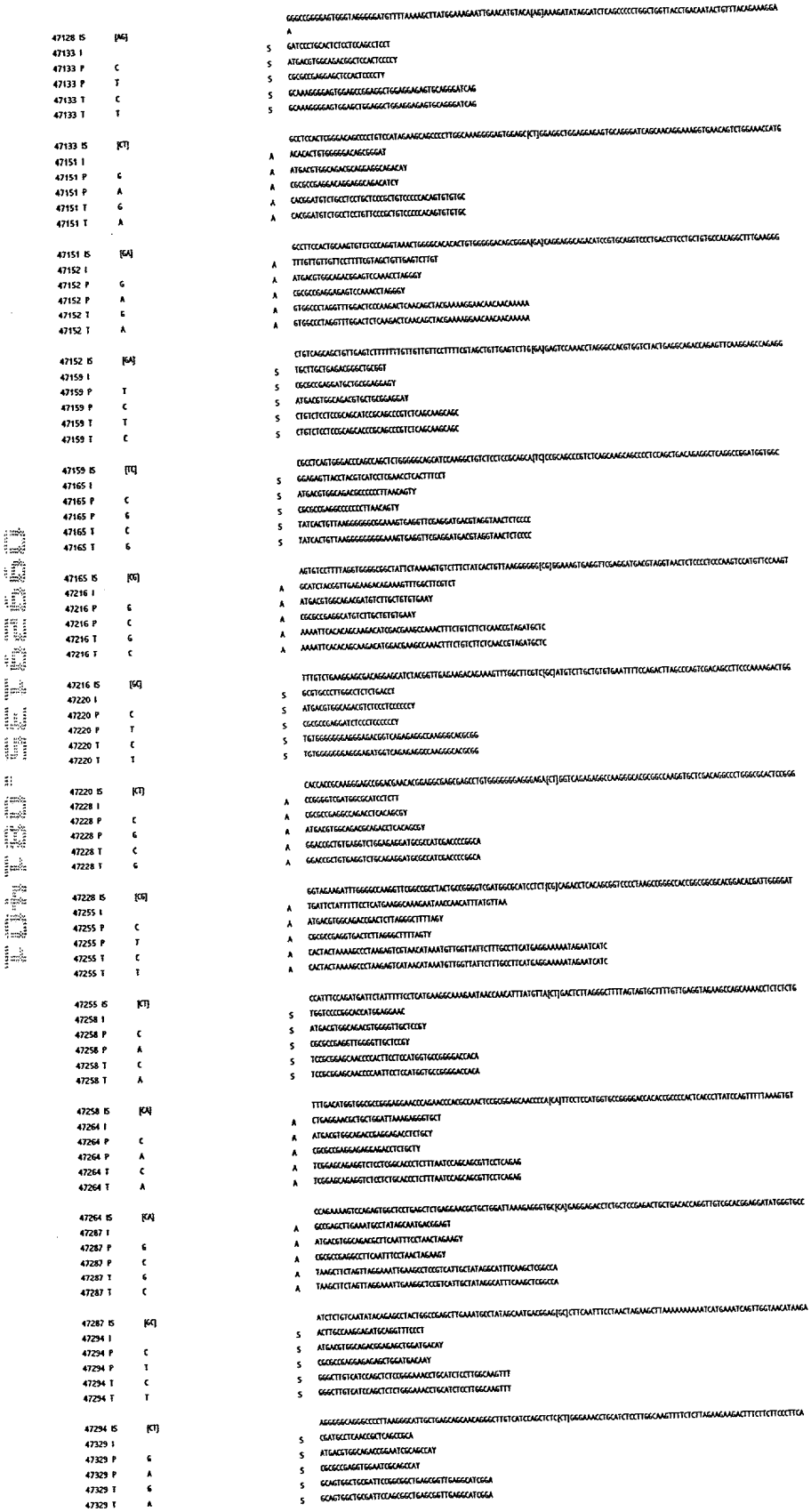
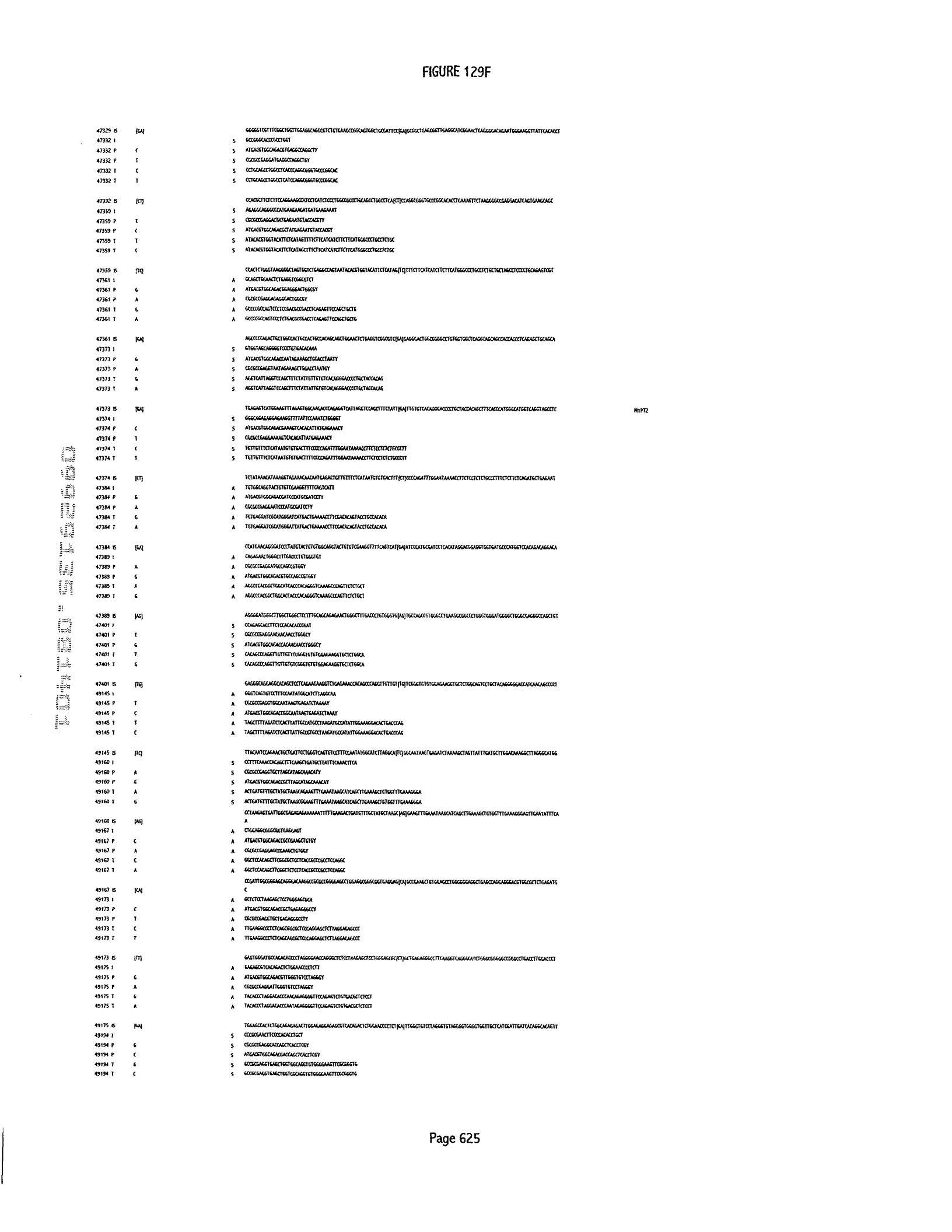
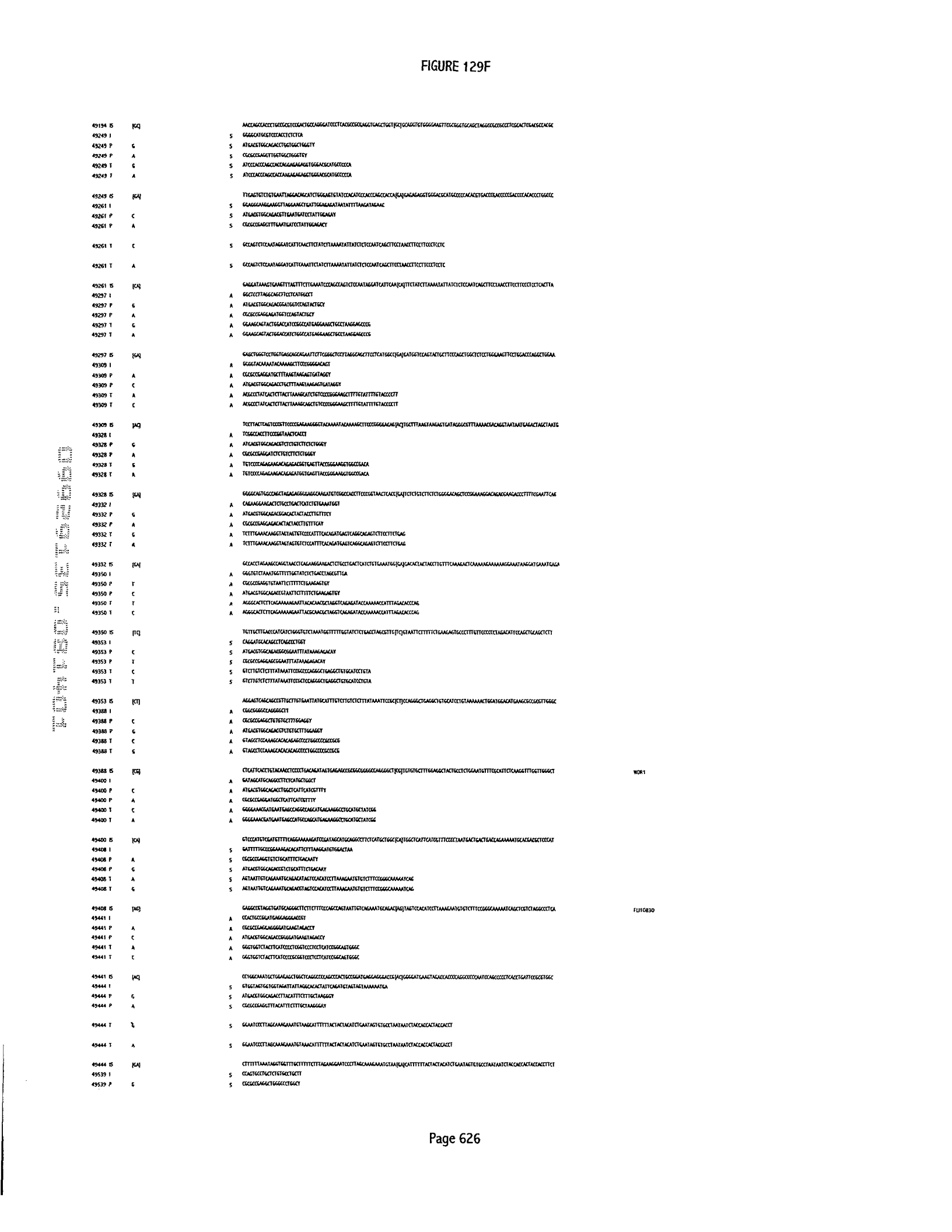


FIGURE 129F





Attorney Docket No. 10466-1







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50396 T   G    S   AATGCCTATTGATTAACACAAGACAAGACCATTGATTTTATAAGTTTTTACTCAGGAAAACATTCAAGTCCAGAACTGGCCC

50396 T   A    S   AATGCCTATTGATTAACACAAGACAAACCATTGATTTTATAAGTTTTTACTCAGGAAAACATTCAAGTCCAGAACTGGCCC

50396 IS  [AA]     TTATCTTATCAGCCCGAAAATGATTTCAATTTTAAATGCCTATTGATTAACACAAGACAA[GA]ACCATTGATTTTATAAGTTTTTACTCAGGAAAACATTCAAGTCCAGAACTGGCCCATGCA
50435 I   -    S   ATAACCAATGTGTTTCTCATTTGAAATATTTTTTAACCTAATAGTACATAATTGAATTGTTA
50435 P   G    S   ATGACGTGGCAGACCCTAGAAACTTCTTTCCTTCTTY
50435 P   A    S   CGCGCCCAGGTCTAGAAACTTCTTTCCTTCTTTY

50435 T   G    S   TGAAAAAGAAGCAAAGAAGTTTCTAGGAACAATTCAATTATGTACTATTAAGTAAAAAATATTTCAAATGAGAAACACATTGGTTAT

50435 T   A    S   TGAAAAAGAAGCAAAGAAGTTTCTAGAAACAATTCAATTATGTACTATTAAGTAAAAAATATTTCAAATGAGAAACACATTGGTTAT

50435 IS  [GA]     GTCTTGGCTGTTCTTCATGTCTAAATAAAGAGAGTGAAAAAGAAGGAAAGAAGTTTCTAG[GA]AACAATTCAATTATGTACTATTAAGTAAAAAATATTTCAAATGAGAAACACATTGGTTA
                   T
50452 L   -    S   CCTAAGCCAGTGTGGCTGTGCCCAGAGT
50452 P   T    S   CGCGCCCAGGAGTGAGCACCGGTCY
50452 P   G    S   ATGACGTGGCAGACCGTGAGCACCGGTY
50452 T   T    S   CCCTGACCGGTGCTCACTCTCTGGGCACAGCCACACTGGCTTAGGTT
50452 T   G    S   CCCTGACCGGTGCTCACGCTCTGGGCACAGCCACACTGGCTTAGGTT

50452 IS  [TG]     TGCAGGACCCACCTGGGAGCTCACAGAGTCCATAGGACAGGCCCCCTGACCGGTGCTCAC[TG]CTCTGGGCACAGCCACACTGGCTTAGGTTGACTATCACCACCATGCGGAAGGTGAGCCC
50537 I   -    A   CCTAAGATTTTTAAAGTCCCTCAAGTTCATGTGGACATCTT
50537 P   G    A   ATGACGTGGCAGACGCCTAGGTCCTACTATCCY
50537 P   A    A   CGCGCCGAGGACCTAGGTCCTACTATCCTY
50537 T   G    A   TTCTAGGATAGTAGGACCTAGGCAGATGTCCACATGAACTTGAGGAACTTTAAAAATCTTAGGAT
50537 T   A    A   TTCTAGGATAGTAGGACCTAGGTAGATGTCCACATGAACTTGAGGAACTTTAAAAATCTTAGGAT

50537 IS  [GA]     AAGTGGGTTATAGTTAAAATCCTAAGATTTTTAAAGTCCCTCAAGTTCATGTGGACATCT[GA]CCTAGGTCCTACTATCCTAGAATTCGCATGTCTTATCACACAAATAACTGATTCTTCCAT
50543 I   -    S   CCTTGCATTTGGCACAGATGAAGCGGCTGT
50543 P   C    S   ATGACGTGGCAGACGTGTCCAACGATTTGGTY
50543 P   T    S   CGCGCCGAGGATGTCCAACGATTTGGTGY
50543 T   C    S   GCTACACCAAATCGTTGGACACATCAGCCGCTTCATCTGTGCCAAATGCAAGGGG
50543 T   T    S   GCTACACCAAATCGTTGGACATCAGCCGCTTCATCTGTGCCAAATGCAAGGGG

50543 IS  [CT]     TTTTGTTGTGTGTTGTTCCATTCCTTCCCAGGATTGGCTGCTACACCAAATCGTTGGACA[CT]CAGCCGCTTCATCTGTGCCAAATGCAAGGGGTCTCTGGTCATGGTGCCATTAACTCAGAA
50546 I   -    S   GAGAAAAGATCAACAAGAAAAGTGCCTGCTGGAGACCA
50546 P   A    S   CGCGCCGAGGTCTCCTAGGGCATAAACCY
50546 P   G    S   ATGACGTGGCAGACCCTCCTAGGGCATAAACCY
50546 T   A    S   TATTGGTTTATGCCCTAGGAGAGGTCTCCAGCAGGCACTTTTCTTGTTGATCTTTTCTCCC
50546 T   G    S   TATTGGTTTATGCCCTAGGAGGGGTCTCCAGCAGGCACTTTTCTTGTTGATCTTTTCTCCC

50546 IS  [AG]     CTAAGGACACCTCAGGCTGACCTAGCTGCCCCACCTCTATATTGGTTTATGCCCTAGGAG[AG]GGTCTCCAGCAGGCACTTTTCTTGTTGATCTTTTCTCCGCTGAGAAGGCTCCCGCCAGTA
50564 I   -    S   GCACACCCAGCAGTTTCAACAAGCAATTTGTCCT
50564 P   C    S   ATGACGTGGCAGACGCTAGTGTGCAGGCTY
50564 P   T    S   CGCGCCGAGGACTAGTGTGCAGGCTCY
50564 T   C    S   GGAGGAGCCTGCACACTAGCGGACAAATTGCTTGTTGAAACTGCTGGGTGTGCCT
50564 T   T    S   GGAGGAGCCTGCACACTAGTGGACAAATTGCTTGTTGAAACTGCTGGGTGTGCCT

50564 IS  [CT]     AAGGTTGTGACCCCATAGTACTCAGCCTGTGGGAAACTGGGGGAGGAGGCCTGCACACTAG[CT]GGACAAATTGCTTGTTGAAACTGCTGGGTGTGCCTGTCCGTCAGACACCCGATTTTGCAA
50574 I   -    S   CAGGGCAGGAAGTGGCCAGCTCACT
50574 P   C    S   ATGACGTGGCAGACGGGACTATGGCTGCAY
50574 P   T    S   CGCGCCGAGGAGGACTATGGCTGCACY
50574 T   C    S   CGCGGTGCAGCCATAGTCCCGTGAGCTGCCCACTTCCTGCCCTGGC
50574 T   T    S   CGCGGTGCAGCCATAGTCCTGTGAGCTGCCCACTTCCTGCCCTGGC

50574 IS  [CT]     AGCATGCGCTCCCACCTCCAGGATGGTAGTCGGTATGAACCCGCGGTGCAGCCATAGTCC[CT]GTGAGCTGCCCACTTCCTGCCCTGGCCAGTGGTTCGCCTGCTACCTCGGTCGTCACCATT                FLI23112
50605 I   A    A   TCAAAGCTTTCTAACTTATCAGGATTTTTCTTTACAGGAATTTCCTGGGGT
50605 P   A    A   CGCGCCGAGGACAAATGGAATCCAATAACAGY
50605 P   G    A   ATGACGTGGCAGACGCAAATGGAATCCAATAACAGY

50605 T   A    A   TTTCCTGTTATTGGATTCCATTTGTCCCCAGGAAATTCCTGTAAACAAAAATCCTGATAAGTTAGAAAGCTTTGAGC

50605 T   G    A   TTTCCTGTTATTGGATTCCATTTGCCCCCAGGAAATTCCTGTAAACAAAAATCCTGATAAGTTAGAAAGCTTTGAGC

50605 IS  [AG]     ACCTGGCTGCTCAAAGCTTTCTAACTTATCAGGATTTTTCTTTACAGGAATTTCCTGGGG[AG]CAAATGGAATCCAATAACAGCAAACAGGAAGACAGCCAGCTCAGCGAGGTAAGTGAGCGC
50625 I   -    S   GCTCCCCATCATTTTCAGGATCAGACTCAAACCCA
50625 P   G    S   ATGACGTGGCAGACCGTAAAAGTCGATCTCTGAAY
50625 P   A    S   CGCGCCCAGGTGTAAAAGTCTGATCTCTGAAAY
50625 T   G    S   GAGGTTTCAGAGATCAGACTTTTACAGGGGTTTGAGTCTGATCCTCAAAATGATGGGGAGCCG
50625 T   A    S   GAGGTTTCAGAGATCAGACTTTTACAGGGTTTGAGTCTGATCCTGAAAATGATGGGGAGCCG

50625 IS  [AA]     GGGAAGGTGAAGAGTGACAAGGAAGAGTGGATGGTGAGGTTTCAGAGATCAGACTTTTAC[GA]GGGTTTGAGTCTGATCCTGAAAATGATGGGGAGCCGCTGCAGAGTTCTGGTGGGGAGA
                   AG
50648 I   -    S   TCCCCTCCACCTATTTTGGAAGGTCTGCATGTT
50648 P   C    S   ATGACGTGGCAGACGCAGTTGTATGCTATTTCCAY
50648 P   T    S   CGCGCCGAGCAGAGTTGTATGCTATTTCCAAY
50648 T   C    S   TACCTTGGAAAATAGCATACAACTCCACATGCAGACCTCCAAAATAGGTGGAGGGGACC
50648 T   T    S   TACCTTGGAAAATAGCATACAACTCTACATGCAGACCTCCAAAATAGGTGGAGGGGACC

50648 IS  [CT]     AGGCAGTTTTTTTTTTTTTTTTTTTAAATGAGGTACCTTGGAAAATAGCATACAACTC[CT]ACATGCAGACCTCCAAAATAGGTGGAGGGGACCAAGAGGAATAGGAATTCATTTGAAAGT
50685 I   -    S   CGGCACTGGCGCAAGCTGGAT
50685 P   C    S   ATGACGTGGCAGACGCAGGACCGGCTCY
50685 P   T    S   CGCGCTGAGCAGAGGACCGGCTCAY
50685 T   C    S   GGCCTGAGCCGGTCCTCCTCCAGCTTGCGCCGGTGCCGCT
50685 T   T    S   GGCCTGAGCCGGTCCTCTTCCAGCTTGCGCCGGTGCCGCT

50685 IS  [CT]     GGCTTCGTGCTCCGACTAGTGCATTATGGCAGGCGGGCATGGGGGCCTGAGCCGGTCCTC[CT]TCCAGCTTGCGCCGGTGCCGCTCCTCCCGGGCACGCATCCTCTGCTTGCATTCCCACTCA      FLI10094
50711 I   -    A   TGACGCCCGGAGGCCTCCTA
50711 P   C    A   ATGACGTGGCAGACGTAGTGTATTTGGGACAGY
50711 P   T    A   CGCGCCGAGGTGTAGTGTATTTGGGACAGY
50711 T   C    A   CTGCCTGTCCCAAATACACTACGAGGAGGCCTCCGGGGCGTCAGG
50711 T   T    A   CTGCCTGTCCCAAATACACTACAAGGAGGCCTCCGGGGCGTCAGG

50711 IS  [CT]     GTAGGAATGCTTGCATTTCCGCCCCAGCCGCCTCCTTCCTGACGCCCCGAGGCCTCCT[CT]GTAGTGTATTTGGGACAGGCAGACTCCGCATCACTCAGTAGATACCTACCGAGATCTACT
50718 I   -    S   CCTGGTCCATCTCTAACAACAGAAAATTTCCAGTCATTATTTA
50718 P   A    S   CGCGCCGAGGTGTGCTTCAGAATGATCYGY
50718 P   G    S   ATGACGTGGCAGACCGTGCTTCAGAATGATCYGY
50718 T   A    S   TACACAGAATCATTCTGAAGCACAAAATAATGACTGGAAATTTTCTCTTGTTAGAGATGGACCAGGAA
50718 T   G    S   TACACAGAATCATTCTGAAGCACGAAATAATGACTGGAAATTTTCTCTTGTTAGAGATGGACCAGGAA
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FIGURE 129F

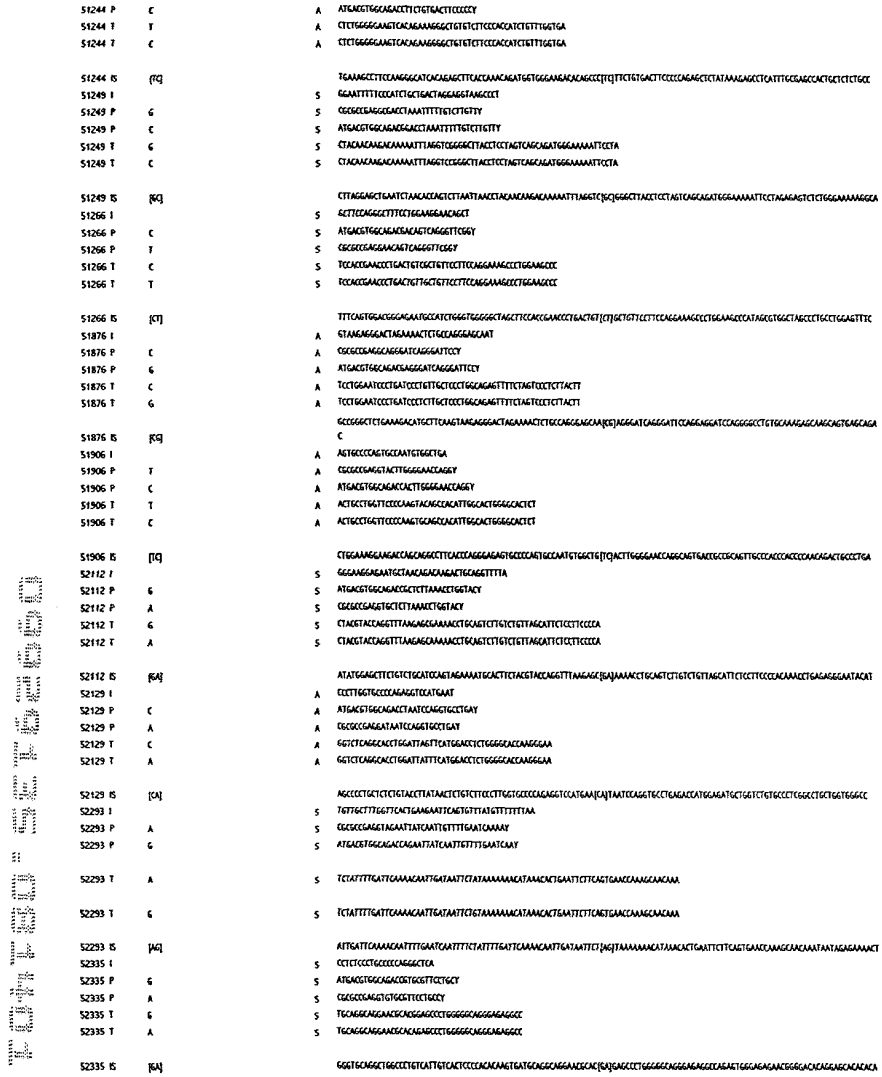

51244 P C A ATGACGTGGCAGACCTTCTGTGACTTCCCCCY
51244 T T A CTCTGGGGCAAGTCACAGAAAGGCTGTGTCTCCCACCATCTGTTTGGTGA
51244 T C A CTCTGGGGCAAGTCACAGAAGGGCTGTGTCTCCCACCATCTGTTTGGTGA
51244 IS (TC) TGAAAGCCTTCCAAGGGCATCACAGAGCTTCACCAAACAGATGGTGGGAAGACACAGCCCC[TC]TTCTGTGACTTCCCCCAGAGCTCTATAAAGAGCCTCATTTGCGAGCCACTGCTCTCTGCC
51249 I S GGAATTTTTCCCATCTGCTGACTAGGAGGTAAGCCCT
51249 P G S CGCGCCGAGGCGACCTAAATTTTTGTCTGTTY
51249 P C S ATGACGTGGCAGACGCACCTAAATTTTTGTCTTGTTY
51249 T G S CTACAACAAGACAAAAATTTAGGTCGGGGCTTACCTCCTAGTCAGCAGATGGGAAAAATTCCTA
51249 T C S CTACAACAAGACAAAAATTTAGGTCCGGGCTTACCTCCTAGTCAGCAGATGGGAAAAATTCCTA
51249 IS (GC) CTTAGGAGCTGAATCTAACACCAGTCTTAATTAACCTACAACAAGACAAAAATTTAGGTC[GC]GGGCTTACCTCCTAGTCAGCAGATGGGAAAAATTCCTACAGAGTCTCTGGGAAAAAGGCA
51266 I S GCTTCCAGGCCTTTCCTGGAAGGAACAGCT
51266 P C S ATGACGTGGCAGACGACAGTCAGGGTTCGGY
51266 P T S CGCGCCGAGGAACAGTCAGGGTTCGGY
51266 T C S TCCACCGAACCCTGACTGTCGCTGTTCCTTCCAGGAAAGCCCTGGAAGCCC
51266 T T S TCCACCGAACCCTGACTGTTGCTGTCCTTCCAGGAAAGCCCTGGAAGCCC
51266 IS (CT) TTTCAGTGGACGGCAGAATGCCATCTGGGGTGGGGGCTAGCCTCCCACCGAACCCTGACTGT[CT]GCTGTCCTTCCAGGAAAGCCCTGGAAGCCATAGCGTGGCTAGCCCTGCCTGGAGTTTC
51876 I A GTAAGAGGGACTAGAAAACTGTGCCAGGGAGCAAT
51876 P C A CGCGCGAGGCAGGGATCAGGGATTCCY
51876 P G A ATGACGTGGCAGACGAGGGATCAGGGATTCCY
51876 T C A TCCTGGAATCCCTGATCCCTGTTGCTCCCTGGCAGAGTTTTCTAGTCCCTCTTACTT
51876 T G A TCCTGGAATCCCTGATCCCTCTTGCTCCCTGGCAGAGTTTTCTAGTCCCTCTTACTT
51876 IS (CG) GCCGGGCTCTGAAAGACATGCTTCAAGTAAGAGGGACTAGAAAACTCTGCCAGCGAGCAA[CG]AGGGATCAGGGATTCCAGGAGGATCCAGGGGCCTGTGCAAAGAGCAAGCAGTGAGCAGA
C
51906 I A AGTGCCCCAGTGCCAATGTGGCTGA
51906 P T A CGCGCCGAGGTACTTGGGGAACCAGGY
51906 P C A ATGACGTGGCAGACCACTTGGGGAACCAGGY
51906 T T A ACTGCCTGGTTCCCCAAGTACAGCCACATTGGCACTGGGGCACCT
51906 T C A ACTGCCTGGTTCCCCAAGTGCAGCCACATTGGCACTGGGGCACCT
51906 IS (TC) CTGGAAAGGAAGACCAGCAGGCCTTCACCCAGGGAGAGTGCCCCAGTGCCAATGTGGCTG[TC]ACTTGGGGAACCAGGCAGTGACCGCCGCAGTTGCCCACCCACCCCAACAGACTGCCCTGA
52112 I S GGGAAGGAGAATGCTAACAGACAAGACTGCAGGTTTTA
52112 P G S ATGACGTGGCAGACCGCTCTTAAACCTGGTACY
52112 P A S CGCGCCGAGGTGCTCTTAAACCTGGTACY
52112 T G S CTACGTACCAGGTTTAAGAGCAAAACCTGCAGTCTTGTCTGTTAGCATTCTCCTTCCCCA
52112 T A S CTACGTACCAGGTTTAAGAGCAAAACCTGCAGTCTTGTCTGTTAGCATTCTCCTTCCCCA
52112 IS (GA) ATATGGAGCTTCTGTCTGCATCCAGTAGAAAATGCACTTCTACGTACCAGGTTTAAGAGC[GA]AAAACCTGCAGTCTTGTCTGTTAGCATTCTCCTTCCCCACAAACCTGAGAGGGAATACAT
52129 I A CCCTTGGTGCCCCAGAGGTCCATGAAT
52129 P C A ATGACGTGGCAGACCTAATCCAGGTGCCTGAY
52129 P A A CGCGCCGAGGATAATCCAGGTGCCTGAY
52129 T C A GGTCTCAGCCACCTGGATTAGTTCATGGACCYCTGGGGCACCAAGGGAA
52129 T A A GGTCTCAGCCACCTGGATTATTTCATGGACCYCTGGGGCACCAAGGGAA
52129 IS (CA) AGCCCCTGCTCTCTGTACCTTATAACTCTGTCTTCCCTTGGTGCCCCAGAGGTCCATGAA[CA]TAATCCAGGTGCCTGAGACCATGGAGATGCTGGTCTGTGCCCTCGGCCTGCTGGTGGGCC
52293 I S TGTTGCTTTGGTTCACTGAAGAATTCAGTGTTTATGTTTTTTTAA
52293 P A S CGCGCCGAGGTAGAATTATCAATTGTTTTGAATCAAAAY
52293 P G S ATGACGTGGCAGACCAGAATTATCAATTGTTTTGAATCAAY
52293 T A S TCTATTTTGATTGAAAACAATTGATAATTCTATAAAAAAACATAAACACTGAATTCTTCAGTGAACCAAAGCAACAA
52293 T G S TCTATTTTGATTGAAAACAATTGATAATTCTGTAAAAAAACATAAACACTGAATTCTTCAGTGAACCAAAGCAACAA
52293 IS (AG) ATTGATTCAAAACAATTTTGAATCAATTTTCTATTTTGATTCAAAACAATTGATAATTCT[AG]TAAAAAAACATAAACACTGAATTCTTCAGTGAACCAAAGCAACAAATAATAGAGAAAACT
52335 I S CCTCTCCCTGCCCCCAGGGCTCA
52335 P G S ATGACGTGGCAGACCGTGCGTTCCTGCY
52335 P A S CGCGCCGAGGTGTGCGTTCCTGCCY
52335 T G S TGCAGGCAGGAACGCACGGAGCCCTGGGGGCAGGGAGAGGCC
52335 T A S TGCAGGCAGGAACGCACAGAGCCCTGGGGGCAGGGAGAGGCC
52335 IS (GA) GGGTGCAGGCTGGCCTGTCATTGTCACTCCCCACACAAGTGATGCAGGCAGGAACGCAC[GA]CAGCCCTGGGGGCAGGGAGAGGCCAGAGTGGCAGAGAACGGGGACACAGGAGCACACACA
52650 I S TCTGATGACCTGATTATCTTGAGAATCAATAGCAAGGAAGATCAGGATCT
52650 P C S ATGACGTGGCAGACGAGAAGTCAGCTCTGGTY
52650 P T S CGCGCCGAGGAAGAAGTCAGCTCTGGTY
52650 T C S TATAACCAGAGCTGACTTCTGATCCTGATCTTCCTTGCTATTGATTCTCAAGATAATCAGGTCATCAGAGC
52650 T T S TATAACCAGAGCTGACTTCTTGATCCTGATCTTCCTTGCTATTGATTCTCAAGATAATCAGGTCATCAGAGC
52650 IS (CT) AAAGCAGGAACTGCACCCGCCCATGCTGAGTGCACCCTTTTATAACCAGAGCTGACTTCT[CT]GATCCTGATCTTCCTTGCTATTGATTCTCAAGATAATCAGGTCATCAGAGCTCGCCTTGG
52708 I S TCCSTTTCCACATCGCTGTCTAGATCCSTTTCCT
52708 P T S CGGGCCGAGGACATCACCCSTACCCY
52708 P C S ATGACGTGGCAGACGCATCACCCSTACCCY
52708 T T S AACCGGGTACGGGTGATGTGGAAACGGATCTAGACAGCGATGTGGAAACGGATC
52708 T C S AACCGGGTACGGGTGATGCGGAAACGGATCTAGACAGCGATGTGGAAACGGATC
52708 IS (TT) GACGCGGATGAGGATATAGATAGATGCATAGGGTGTGGATCTAACCGGGTACGGGTGATG[TC]GGAAACGGATCTAGACAGCGATGTGGAAACGGATCTAGACAGCGATGTGGATGTGATCT
A

FIGURE 129G

SNP	OLIGO	PH	ID	OLIGO_SEQUENCE	GPCD	GPOH	SHORT_GENE_NAME
	63516 I		A	CAATGTCCACTCACTTGGAAGAGTCATTGTAGGAAATGCTTT			
	63516 P	G	A	ATGACGTGGCAGACGATACATAAGCATGCTCTCAY			
	63516 P	C	A	CGCGCCGAGGCATACATAAGCATGCTCTCAY			
	63516 T	G	A	ACCATGAGAGCATGCTTATGTATCAAGCATTTCCTACAATGACTCTTCCAAGTGAGTGGCACATTGAT			
	63516 T	C	A	ACCATGAGAGCATGCTTATGTATGAAGCATTTCCTACAATGACTCTTCCAAGTGAGTGGCACATTGAT			
	63516 IS	[GC]		ACTGATATGTTTGGATAATCAATGTCCACTCACTTGGAAGAGTCATTGTAGGAAATGCTTKGCJATACATAAGCATGCTCTCATGGTCCTCTCCTGATTTCTATTACTTTAATTCTTCAAGTTC	ctg13980	1	
	63629 I		S	GACTCCTCACAACGATGCTATAAAGTGACTAGCAGATGTTGGTATATCTC			
	63629 P	C	S	ATGACGTGGCAGACGATATTTAGAGAAAAGGTGAAACCY			
	63629 P	A	S	CGCGCCGAGGTATATTTAGAGAAAAGGTGAAACCTY			
	63629 T	C	S	ACAGAGGTTTCACCTTTTCTCTAAATATCAGATATACCAACATCTGCTAGTCACTTTATAGCATCTTGTGAGGAGTCCA			
	63629 T	A	S	ACAGAGGTTTCACCTTTTCTCTAAATATAAGATATACCAACATCTGCTAGTCACTTTATAGCATCTTGTGAGGAGTCCA			
	63629 IS	[CA]		ATCGGCCAAATTATCAAAATAAGATTCAGGTAACAGAGGTTTCACCTTTTCTCTAAATATJCAJAGATATACCAACATCTGCTAGTCACTTTATAGCATCTTGTGAGGAGTCCACACTGTTTTC	ctg16586	20	
	64829 I		A	TGAATGACTGAAAAATGAATCAATGCTTTATTAAATGATAAATCCATAGTCTGTA			
	64829 P	C	A	ATGACGTGGCAGACCCGGTTCACCGACGY			
	64829 P	T	A	CGCGCCGAGGTGGGTTCACCGACGY			
	64829 T	C	A	CTGGCGTCGGTGAACCCGACAGACTATGGATTTATCATTTAATAAAGCATTGATTCATTTTTTCAGTCATTCATT			
	64829 T	T	A	CTGGCGTCGGTGAACCCAACAGACTATGGATTTATCATTTAATAAAGCATTGATTCATTTTTTCAGTCATTCATT			
	64829 IS	[CT]		TTCAATGAATGACTGAAAAATGAATCAATGCTTTATTAAATGATAAATCCATAGTCTGT[CT]GGGTTCACCGACGCCAGCCATCGGTGCCATATTGCCACAAGTGTCCTATGGTAAAGCAGT	ctg16586	20	
	65789 I		A	GGAGAGACAGAGGCTGTGGTTGTGCACTCA			
	65789 P	T	A	CGCGCCGAGGTGGCGGCTGCACY			
	65789 P	C	A	ATGACGTGGCAGACCGGGGGCTGCAY			
	65789 T	T	A	GTCCGTGCAGCCGCCAGAGTGCACAACCACAGCCTCTGTCTCTCCTT			
	65789 T	C	A	GTCCGTGCAGCCGCCGGAGTGCACAACCACAGCCTCTGTCTCTCCTT			
	65789 IS	[TC]		GGAGGCAGATAGGATCCTCAAACTCCACAAAGGAGAGAGACAGAGGCTGTGGTTGTGCACTC[TC]GCCGCCTGCACGGACCCCGGTCAGCTGGAGGGAGAACTTCCCTCACTGATGCGACCTGGG	ctg16586	20	
	65826 I		A	GCCCTGAGGAGGCCTCCGAACAGGA			
	65826 P	T	A	CGCGCCGAGGTCCCATCACACCAGATGY			
	65826 P	C	A	ATGACGTGGCAGACCCCCATCACACCAGAY			
	65826 T	T	A	AGTGCATCTGGTGTGATGGGACCTGTTCGGAGGCCTCCTCAGGGCTG			
	65826 T	C	A	AGTGCATCTGGTGTGATGGGGCCTGTTCGGAGGCCTCCTCAGGGCTG			
	65826 IS	[TC]		AGAGCCCACTGTGTGGGACAGTATCTTCGCTGCACAGCCCTGAGGAGGCCTCCGAACAGG[TC]CCCATCACACCAGATGCACTCAAAAACATACGGTGTCATTTACCCCCATGTGCCTAGAGC	ctg16586	20	
	67723 I		A	AGCAAGACAGCTGGTTAACATTTATCACACTGCT			
	67723 P	A	A	CGCGCCGAGGATACTTATTAGTCAAATCAGGAAATGY			
	67723 P	G	A	ATGACGTGGCAGACGTACTTATTAGTCAAATCAGGAAATY			
	67723 T	A	A	CAGCCATTTCCTGATTTGACTAATAAGTATGCAGTGTGATAAATGTTAACCAGCTGTCTTGCTAT			
	67723 T	G	A	CAGCCATTTCCTGATTTGACTAATAAGTACGCAGTGTGATAAATGTTAACCAGCTGTCTTGCTAT			
	67723 IS	[AG]		AGAACTAAAAACTGTGTGACTATTTATAGCAAGACAGCTGGTTAACATTTATCACACTGC[AG]TACTTATTAGTCAAATCAGGAAATGGCTGTCCACAATACTCTGATGATCTGAGTTATAAT	ctg14210	12	
	68696 I		A	AGTTAATATCTGTCTCTTGCTTTTCTAATAGTAATAATTTTCTCCTTTTCTCTCTTCATTTTT			
	68696 P	A	A	CGCGCCGAGGATCTCTAAATAAAATTAACTTTTTTCAGATY			
	68696 P	C	A	ATGACGTGGCAGACCTCTCTAAATAAAATTAACTTTTTCAGATY			
	68696 T	A	A	CAAAATCTGAAAAAAGTTAATTTTATTTAGAGATAAAATGAAGACAAAAGGAGAAAATTATTACTATTAGAAAAGCAAGAGACAGATATTAACT			
	68696 T	C	A	CAAAATCTGAAAAAAGTTAATTTTATTTAGAGAGAAAATGAAGACAAAAGGAGAAAATTATTACTATTAGAAAAGCAAGAGACAGATATTAACT			
	68696 IS	[AC]		AGTTAATATCTGTCTCTTGCTTTTCTAATAGTAATAATTTTCTCCTTTTCTCTCTTCATTTT[AC]TCTCTAAATAAAATTAACTTTTTTCAGATTTGCAAAACACAAATGAGTTCTTAAATCAG	ctg14210	12	
	75814 I		A	TGTTATCGTGGTATCAGCAGCTATCAAATAATAGGCATTCCATCAAACT			
	75814 P	G	A	ATGACGTGGCAGACGGCAAGGGTGACCTY			
	75814 P	A	A	CGCGCCGAGGAGCAAGGGTGACCTCY			
	75814 T	G	A	GGAAGAGGTCACCCTTGCCGTTTGATGGAATGCCTATTATTTGATAGCTGCTGATACCACGATAACACA			
	75814 T	A	A	GGAAGAGGTCACCCTTGCTGTTTGATGGAATGCCTATTATTTGATAGCTGCTGATACCACGATAACACA			
	75814 IS	[GA]		AGGGAATCTCTGTGTTATCGTGGTATCAGCAGCTATCAAATAATAGGCATTCCATCAAAC[GA]GCAAGGGTGACCTCTTCCAAGATGCACATAAACTGCTGCCTGTTCCTACTTTGGTTTCTG	ctg14210	12	
	77422 I		S	CCAGAGAGCTTGTACCTTGCGTACAACCGTT			
	77422 P	C	S	ATGACGTGGCAGACGAGCCTGGGATGCAY			
	77422 P	T	S	CGCGCCGAGGAAGCCTGGGATGCAY			
	77422 T	C	S	AACCTGCATCCCAGGCTCACGGTTGTACGCAAGGTACAAGCTCTCTGGCT			
	77422 T	T	S	AACCTGCATCCCAGGCTTACGGTTGTACGCAAGGTACAAGCTCTCTGGCT			
	77422 IS	[CT]		GTTTACCACTGGTTGTTCAACTCTACCCCCAGGTGGACTGGCTAACCTGCATCCCAGGCT[CT]ACGGTTGTACGCAAGGTACAAGCTCTCTGGCTAATGGGGAATCCAAATGAAATTTAGTTA			
	77491 I		S	GCCCCAGTTTCCTTAATTCTTATTAAAGTTCTAGCTCATTTATCAGTGGATTAAGCT			
	77491 P	T	S	CGCGCCGAGGAATGAACGGTAATTAACATTGTGY			
	77491 P	C	S	ATGACGTGGCAGACGATGAACGGTAATTAACATTGTY			
	77491 T	T	S	GGTCCACAATGTTAATTACCGTTCATTGCTTAATCCACTGATAAATGAGCTAGAACTTTAATAAGAATTAAGGAAACTGGGGCAG			
	77491 T	C	S	GGTCCACAATGTTAATTACCGTTCATCGCTTAATCCACTGATAAATGAGCTAGAACTTTAATAAGAATTAAGGAAACTGGGGCAG			
	77491 IS	[TC]		ATTCCAAAAAATGATGGCAAAACAGCCTTGAATGGGTCCACAATGTTAATTACCGTTCATJTC]GCTTAATCCACTGATAAATGAGCTAGAACTTTAATAAGAATTAAGGAAACTGGGGCAGCA			
	77721 I		S	CTTCAATTTATAGGGTGATTCTGTAGGGCAAGATAGACATGT			
	77721 P	C	S	ATGACGTGGCAGACGTAATAGATAGACTGTAGAAATGAAAGY			
	77721 P	T	S	CGCGCCGAGGATAATAGATAGACTGTAGAAATGAAAGAT			
	77721 T	C	S	TTGGTCTTTCATTTCTACAGTCTATCTATTACCATGTCTATCTTGCCCTACAGAATCACCCTATAAATTGAAGAA			
	77721 T	T	S	TTGGTCTTTCATTTCTACAGTCTATCTATTATCATGTCTATCTTGCCCTACAGAATCACCCTATAAATTGAAGAA			
	77721 IS	[CT]		CTGGTATGTTATCAAGGAAAAAAACGAGTTTGGTCTTTCATTTCTACAGTCTATCTATTA[CT]CATGTCTATCTTGCCCTACAGAATCACCCTATAAATTGAAGAAATTTTAAATTACAGACA	ctg22fin4	22	
	78454 I		A	TTTCTCTTGCAAATATCCGTTTCAGCCTAGATGGTAAATAAA			
	78454 P	T	A	CGCGCCCAGGTGAGGAAACAGAAATAAGAGGY			
	78454 P	C	A	ATGACGTGGCAGACCCAGGAAACAGAAATAAGAGGY			
	78454 T	T	A	TCAACCTCTTATTTCTGTTTCCTCATTATTTACCATCTAGGCTGAAACGGATATTTGCAAGAGAAAAT			
	78454 T	C	A	TCAACCTCTTATTTCTGTTTCCTCGTTATTTACCATCTAGGCTGAAACGGATATTTGCAAGAGAAAAT			
	78454 IS	[TC]		GCTTATTTTCTATTATTATTTTCTCTTGCAAATATCCGTTTCAGCCTAGATGGTAAATAA[TC]GAGGAAACAGAAATAAGAGGTTGAAAGTGACCAGGATAATTCTACTATAGGTAGTGGCTT	ctg22fin4	22	
	80530 I		S	CAGGGCCCAGGCAAGGCATGCT			
	80530 P	G	S	ATGACGTGGCAGACCCCCTCCCTGCTGY			
	80530 P	T	S	CGCGCCGAGGACCCTCCCTGCTGY			
	80530 T	G	S	GGCCCAGCAGGCAGGGGGCATGCCTTGGCTGGGGCCTGCA			
	80530 T	T	S	GGCCCAGCAGGGCAGGGTGCATGCCTTGCCTGGGCCCTGCA			
	80530 IS	[GT]		AGGTCCTGGGCAGTGCTGGGGTTTGCAGGGTGGGGGAGGGCACAGGCCCAGCAGGGAGGG[GT]GCATGCCTTGCCTGGGCCCTGCATCCCCTCTGTCTAGGAGGGAATAGTGAGTGCCCACCT	ctg22fin4	22	
	80693 I		A	CACCAGGCCCGCCAGGCCATAT			
	80693 P	G	A	ATGACGTGGCAGACGGCGGCCCCTTTY			
	80693 P	C	A	CGCGCCGAGGCGCGGCCCCTTTY			
	80693 T	G	A	GCGCAAGAGGGCCGCCTATGGCCTGGCGGGCCTGGTGAA			
	80693 T	C	A	GCGCAAGGGGCCGCGTATGGCCTGGCGGGCCTGGTGAA			

FIGURE 129G

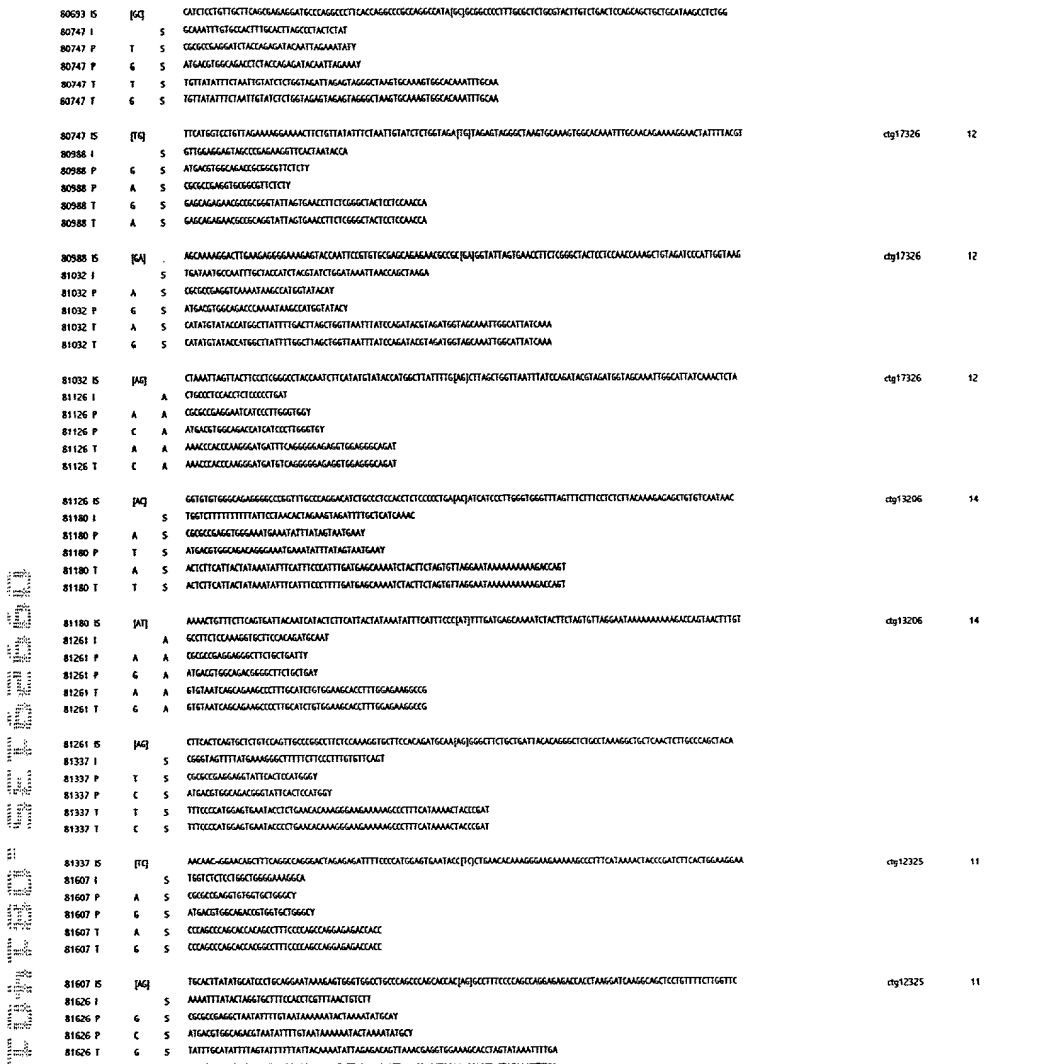
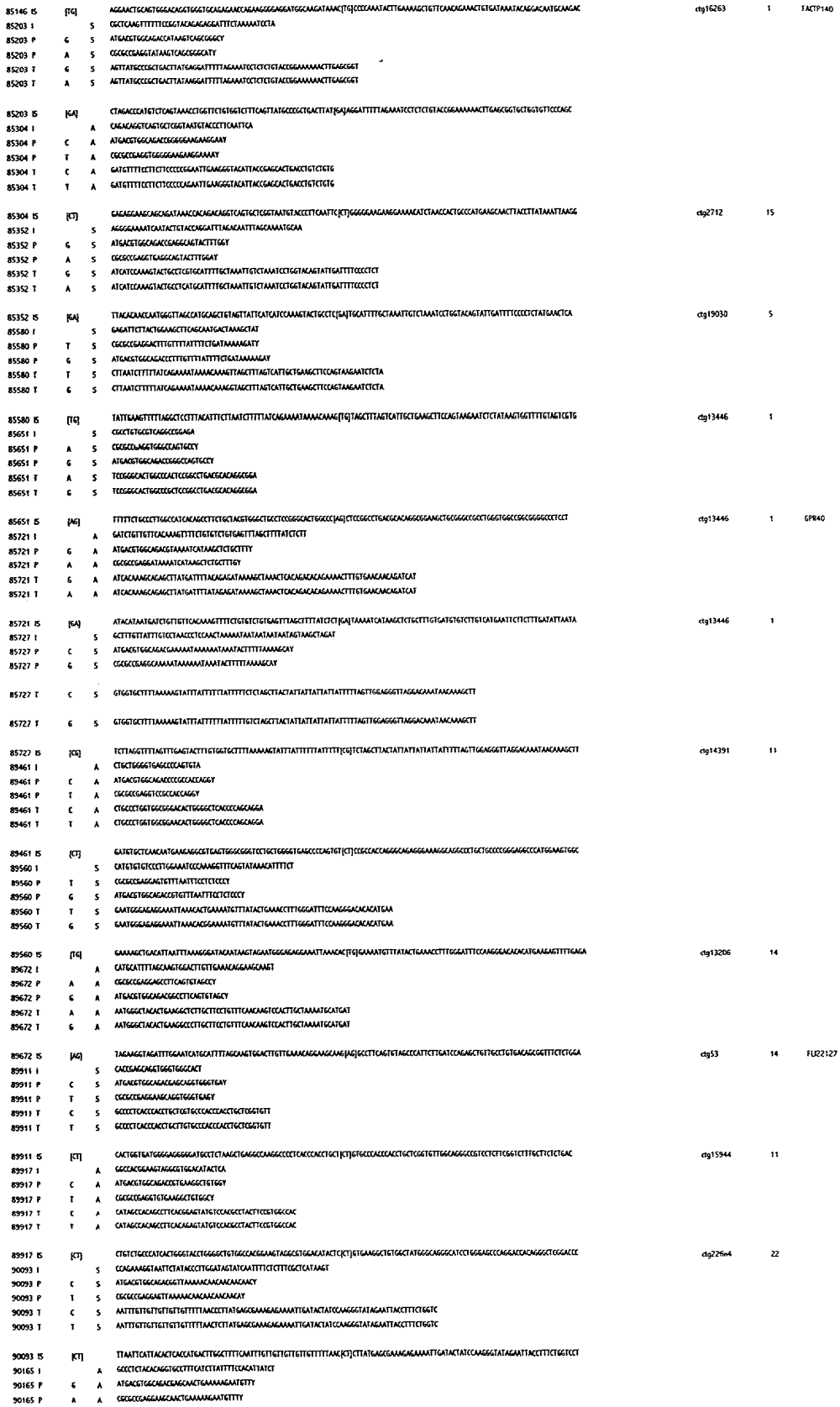

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80747 I S GCAAATTTGTGCCACTTTGCACTTAGCCCTACTCTAT
80747 P T S CGCGCCGAGGATCTACCAGAGATACAATTAGAAATATY
80747 P G S ATGACGTGGCAGACCTCTACCAGAGATACAATTAGAAAY
80747 T T S TGTTATATTTCTAATTGTATCTCTGGTAGATTAGAGTAGGGCTAAGTGCAAAGTGGCACAAATTTGCAA
80747 T G S TGTTATATTTCTAATTGTATCTCTGGTAGAGTAGAGTAGGGCTAAGTGCAAAGTGGCACAAATTTGCAA
80747 IS [TG] TTCATGGTCCTGTTAGAAAAGGAAAACTTCTGTTATATATTTCTAATTGTATCTCTGGTAGA[TG]TAGAGTAGGGCTAAGTGCAAAGTGGCACAAATTTGCAACAGAAAGGAACTATTTTACGT ctg17326 12
80988 I S GTTGGAGGAGTAGCCCGAGAAGGTTCACTAATACCA
80988 P G S ATGACGTGGCAGACCGCGGCGTTCTCTY
80988 P A S CGCGCCGAGGTGCGGCGTTCTCTY
80988 T G S GAGCAGAGAACGCCGCGGTATTAGTGAACCTTCTCGGGCTACTCCTCCAACCA
80988 T A S GAGCAGAGAACGCCGCAGGTATTAGTGAACCTTCTCGGGCTACTCCTCCAACCA
80988 IS [GA] AGCAAAGGACTTGAAGAGGGGAAAGAGTACCAATTCCGTGTGCGAGCAGAGAACGCCGC[GA]GGTATTAGTGAACCTTCTCGGGCTACTCCTCCAACCAAAGCTGTAGATCCCATTGGTAAG ctg17326 12
81032 I S TGATAATGCCAATTTGCTACCATCTACGTATCTGGATAAATTAACCAGCTAAGA
81032 P A S CGCGCCGAGGTCAAAATAAGCCATGGTATACAT
81032 P G S ATGACGTGGCAGACCCAAAATAAGCCATGGTATACY
81032 T A S CATATGTATACCATGGCTTATTTTGACTTAGCTGGTTAATTTATCCAGATACGTAGATGGTAGCAAATTGGCATTATCAAA
81032 T G S CATATGTATACCATGGCTTATTTTGGCTTAGCTGGTTAATTTATCCAGATACGTAGATGGTAGCAAATTGGCATTATCAAA
81032 IS [AG] CTAAATTAGTTACTTCCCTCGGGCCTACCAATCTTCATATGTATACCATGGCTTATTTTG[AG]CTTAGCTGGTTAATTTATCCAGATACGTAGATGGTAGCAAATTGGCATTATCAAACTCTA ctg17326 12
81126 I A CTGCCCTCCCACCTCTCCCCCTGAT
81126 P A A CGCGCCGAGGAATCATCCCTTGGGTGGY
81126 P C A ATGACGTGGCAGACCATCATCCCTTGGGTGY
81126 T A A AAACCCACCCAAGGGATGATTTCAGGGGGCAGAGGTGGCAGGGCAGAT
81126 T C A AAACCCACCCAAGGGATGATGTCAGGGGGAGAGGTGGAGGGCAGAT
81126 IS [AC] GGTGTGTGGGCAGAGGGGCCCGGTTTGCCCAGGACATCTGCCCTCCACCTCTCCCCCTCA[AC]ATCATCCCTTGGGTGGGTTTAGTTTCTTTCCTCTCTTACAAAGACAGCTGTGTCAATAAC ctg13206 14
81180 I S TGGTCTTTTTTTTTATTCCTAACACTAGAAGTAGATTTTGCTCATCAAAC
81180 P A S CGCGCCGAGGTGGGAAATGAAATATTATAGTAATGAAY
81180 P T S ATGACGTGGCAGACAGGGAAATGAAATATTTATAGTAATGAAY
81180 T A S ACTCTTCATTACTATAAATATTTCATTTCCCATTTGATGAGCAAAATCTACTTCTAGTGTTAGGAATAAAAAAAAAGACCAGT
81180 T T S ACTCTTCATTACTATAAATATTTCATTTCCCTTTTGATGAGCAAAATCTACTTCTAGTGTTAGGAATAAAAAAAAAGACCAGT
81180 IS [AT] AAAACTGTTTCTTCAGTGATTACAATCATACTCTTCATTACTATAAATATTTCATTTCCC[AT]TTTGATGAGCAAAATCTACTTCTAGTGTTAGGAATAAAAAAAAAGACCAGTAACTTTGT ctg13206 14
81261 I A GCCTCTCTCCAAAGGTGCTTCCCACAGATGCAAT
81261 P A A CGCGCCGAGGAGGGCTTCTGCTGATTY
81261 P G A ATGACGTGGCAGACGGGGCTTCTGCTGAT
81261 T A A GTGTAATCAGCAGAAGCCCTTTGCATCTGTGGAAGCACCTTTGGAGAAGGCCG
81261 T G A GTGTAATCAGCAGAAGCCCCTTGCATCTGTGGAAGCACCTTTGGAGAAGGCCG
81261 IS [AG] CTTCACTCAGTGCTCTGTCAGTTGCCCGGCCTTCTCCAAAGGTGCTTCCCACAGATGCAA[AG]GGGCTTCTGCTGATTACACAGGGCTCTGCCTAAAGGCTGCTCAACTCTTGCCCAGCTACA
81337 I S CGGGTAGTTTTATGAAAGGGCTTTTCTTCCCTTTGTGTTCAGT
81337 P T S CGCGCCGAGGAGGTATTCACTCCATGGGY
81337 P C S ATGACGTGGCAGACGGGTATTCACTCCATGGGY
81337 T T S TTTCCCCATGGAGTGAATACCCTCTGAACACAAAGGGAAGAAAAAGCCCTTTCATAAAACTACCCGAT
81337 T C S TTTCCCCATGGAGTGAATACCCCTGAACACAAAGGGAAGAAAAAGCCCTTTCATAAAACTACCCGAT
81337 IS [TC] AACAAC-GGGAACAGCTTTCAGGCCAGGGACTAGAGAGATTTTCCCCATGGAGTGAATACCC[TC]CTGAACACAAAGGGAAGAAAAAGCCCTTTCATAAAACTACCCGATCTTCACTGGAAGGAA ctg12325 11
81607 I S TGGTCTCTCTCCTGGCTGGGGAAAGGCA
81607 P A S CGCGCCGAGGTGTGGTGCTGGGCY
81607 P G S ATGACGTGGCAGACCGTGGTGCTGGGCY
81607 T A S CCCAGCCCAGCACCACAGCCTTTCCCCAGCCAGGAGAGACCACC
81607 T G S CCCAGCCCAGCACCACGGCCTTTCCCCAGCCAGGAGAGACCACC
81607 IS [AG] TGCACTTATATGCATCCCTGCAGGAATAAAGAGTGGGTGGCCTGCCCAGCCCAGCACCAC[AG]GCCTTTCCCCAGCCAGGAGAGACCACCTAAGGATCAAGGCAGCTCCTGTTTTCTTGGTTC ctg12325 11
81626 I S AAAATTTATACTAGGTGCTTTCCACCTCGTTTAACTGTCTT
81626 P G S CGCGCCGAGGCTAATATTTTGTAATAAAAAATACTAAAATATGCAY
81626 P C S ATGACGTGGCAGACGTAATATTTTGTAATAAAAAATACTAAAATATGCY
81626 T G S TATTTGCATATTTTAGTATTTTTTATTACAAAATATTACAGACAGTTAAACGAGGTGGAAAGCACCTAGTATAAATTTTGA
81626 T C S TATTTGCATATTTTAGTATTTTTTATTACAAAATATTACAGACAGTTAAACGAGGTGGAAAGCACCTAGTATAAATTTTGA
81626 IS [GC] CTATCAAGGTCACCTTTGGAAATATTTGCATATTTTAGTATTTTTTATTACAAAATATTA[GC]AGACAGTTAAACGAGGTGGAAAGCACCTAGTATAAATTTTGAAGTGAAATATCTTAAAGC ctg15064 7
81891 I S GCATGTTAAGACGCTACAGGTAATGCCCAGCATA
81891 P G S ATGACGTGGCAGACCTGCCAGGGCCATY
81891 P A S CGCGCCGAGGTTGCCAGGGCCATY
81891 T G S AGGCATGGCCCTGGCAGATGCTGGGCATTACCTGTAGCGTCTTAACATGCAG
81891 T A S AGGCATGGCCCTGGCAAATGCTGGGCATTACCTGTAGCGTCTTAACATGCAG
81891 IS [GA] TGGATGGCAACAGCTTGGCAGAGGACAAGGTGGGAGGGGCTGATAGGCATGGCCCTGGCA[GA]ATGCTGGCATTACCTGTAGCGTCTTAACATGCAGGGGCCACCAGGACCAGTGGGGCCAG ctg15064 7
84459 I S GGGCCTGATGCGCCTCGAGCACA
84459 P A S CGCGCCGAGGTCCCTGGGAGCAGGY
84459 P G S ATGACGTGGCAGACCCCTGGGAGCAGY
84459 T A S AGGGCCTGCTCCCAGGGAGTGCTCGAGGCGCATCAGGCCCGT
84459 T G S AGGGCCTGCTCCCAGGGGGTGCTCGAGGCGCATCAGGCCCGT
84459 IS [AG] ACAAGTAGACCTCAGGTAGAACGACACTGGGCGGAGCCACCCCAGGGCCTGCTCCCAGGG[AG]GTGCTCGAGGCGCATCAGGCCGTTTTTTACCAGTTTATATCACGGTCTTCATTTTTAAA ctg15064 7 FLI22341
84722 I A GAGCGAGTTTCTGGACTCTCTGCGCCAT
84722 P G A ATGACGTGGCAGACGTATCTGCGGGGGACY
84722 P C A CGCGCCGAGGCTATCTGCGGGGGACY
84722 T G A AGTGGTCCCCCGCAGATACTGGCGCAGAGAGTCCAGAAACTCGCTCAG
84722 T C A AGTGGTCCCCCGCAGATAGTGGCGCAGAGAGTCCAGAAACTCGCTCAG
84722 IS [GC] CCGGCAGGAGATGGCCGTGTGCCCCGAGCAACTGAGCGAGTTTCTGGCACTCTCTGCGCCA[GC]TATCTGCGGGGGGACCACTGGCGTGAGGAACTGCTTCCAGTGAGTGAGCTGCCGAGGCGTG
85101 I S CCCTCTACCTTCCAAAATACAGACGTTAGGGAAATGCAT
85101 P T S CGCGCCGAGGATTATTTATTAGAACTCAAGTTTGTGTY
85101 P C S ATGACGTGGCAGAGGTTATTTATTAGAACTCAAGTTTGTGY
85101 T T S GCCAACACAAACTTGAGTTCTAATAAATAAATTGCATTTCCCTAACGTCTGTATTTTGGAAGGTAGAGGGGA
85101 T C S GCCAACACAAACTTGAGTTCTAATAAATAAACTGCATTTCCCTAACGTCTGTATTTTGGAAGGTAGAGGGGA
85101 IS [TC] TTTTTGTTTTACACCTTCTGTTCAATGGTTGCCAACACAAACTTGAGTTCTAATAAATAA[TC]TGCATTTCCCTAACGTCTGTATTTTGGAAGGTAGAGGGGAGGGAAAGGCGCATTCCTCCA ctg15131 10
85146 I A GCAGAGAACAGAAGGGGAGGATGGCAACATAAACC
85146 P T A CGCGCCGAGGTCCCCAAATACTTGAAAAGY
85146 P G A ATGACGTGGCAGACGCCCCAAATACTTGAAAAGY
85146 T T A AACAGCTTTTCAAGTATTTGGGGAGTTTATCTTGCCATCCTCCCCTTCTGGTTCTCTGCAC
85146 T G A AACAGCTTTTCAAGTATTTGGGGCGTTTATCTTGCCATCCTCCCCTTCTGGTTCTCTGCAC

FIGURE 129G



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FIGURE 129G

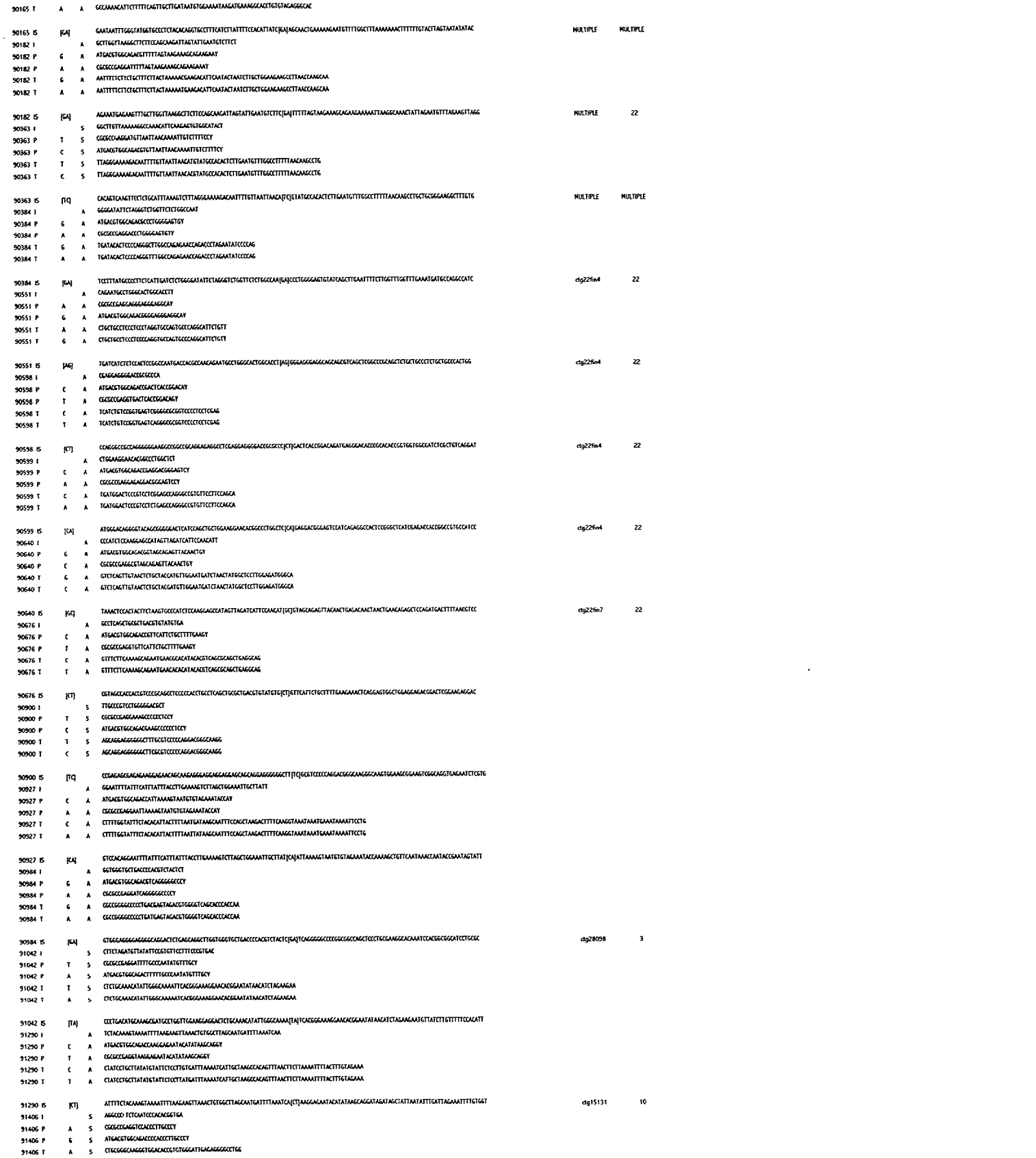

90165 T A A GCCAAAACATTCTTTTTCAGTTGCTTGATAATGTGGAAAATAAGATGAAAGGCACCTGTGTACAGGGCAC
90165 IS [GA] MULTIPLE MULTIPLE
90182 I A GCTTGGTTAAGGCTTCTTCCAGCAGATTAGTATTGAATGTCTTCT
90182 P G A ATGACGTGGCAGACGTTTTTAGTAAGAAAGCAGAAGAAT
90182 P A A CGCGCCGAGGATTTTTAGTAAGAAAGCAGAAGAAAT
90182 T G A AATTTTCTCTCTGCTTTCTTACTAAAAACGAAGACATTCAATACTAATCTTGCTGGAAGAAGCCTTAACCAAGCAA
90182 T A A AATTTTCTCTCTGCTTTCTTACTAAAAATGAAGACATTCAATACTAATCTTGCTGGAAGAAGCCTTAACCAAGCAA
90182 IS [GA] MULTIPLE 22
90363 I S GGCTTGTTAAAAAGGCCAAACATTCAAGAGTGTGGCATACT
90363 P T S CGCGCCCAGGATGTTAATTAACAAAATTGTCTTTTCCY
90363 P C S ATGACGTGGCAGACGTGTTAATTAACAAAATTGTCTTTTCY
90363 T T S TTAGGGAAAAGACAATTTTGTTAATTAACATGTATGCCACACTCTTGAATGTTTGGCCTTTTTAACAAGCCTG
90363 T C S TTAGGGAAAAGACAATTTTGTTAATTAACACGTATGCCACACTCTTGAATGTTTGGCCTTTTTAACAAGCCTG
90363 IS [TC] MULTIPLE MULTIPLE
90384 I A GGGGATATTCTAGGGTCTGGTTCTCTGGCCAAT
90384 P G A ATGACGTGGCAGACGCCTGGGGAGTGY
90384 P A A CGCGCCGAGGACCCTGGGGAGTGTY
90384 T G A TGATACACTCCCCAGGGCTTGGCCAGAGAACCAGACCCTAGAATATCCCCAG
90384 T A A TGATACACTCCCCAGGGTTTGGCCAGAGAACCAGACCCTAGAATATCCCCAG
90384 IS [GA] ctg22fin4 22
90551 I A CAGAATGCCTGGGCACTGGCACCTT
90551 P A A CGCGCCGAGCAGGGAAGGAAGGCAY
90551 P G A ATGACGTGGCAGACGGGGAGGGAGGCAY
90551 T A A CTGCTGCCTCCCTCCCTAGGTGCCAGTGCCCAGGCATTCTGTT
90551 T G A CTGCTGCCTCCCTCCCCAGGTGCCAGTGCCCAGGCATTCTGTT
90551 IS [AG] TGATCATCTCTCCACTCCGCCAATGACCACGCCAACAGAATGCCTGGGCACTGGCACCT[AG]GGGAGGGAGGCAGCAGCGTCAGCTCGGCCCGCAGCTCTGCTGCCCTCTGCTGCCCACTGG ctg22fin4 22
90598 I A CGAGGAGGGGACCGCGCCA
90598 P C A ATGACGTGGCAGACGACTCACCGGACAY
90598 P T A CGCGCCGAGGTGACTCACCGGACAGY
90598 T C A TCATCTGTCCGGTGAGTCGGGGGCGGTCCCCTCCTCGAG
90598 T T A TCATCTGTCCGGTGAGTCAGGGCGCGGTCCCCTCCTCGAG
90598 IS [CT] CCAGGGCCGCCAGGGGGCAAGGCCGGCCGCAGGAGAGGCCTCGAGGAGGGGACCGCGCCC[CT]GACTCACCGGACAGATGAGGGACACCCGCACACCGCTGGTGGCCATCTCGCTGTCAGGAT ctg22fin4 22
90599 I A CTGGAAGGAACACGGCCCTGGCTCT
90599 P C A ATGACGTGGCAGACCGAGCACGGGAGTCY
90599 P A A CGCGCCGAGGAGACGACGGGAGTCY
90599 T C A TGATGGACTCCCGTCCTCGGAGCCAGGGCCGTGTTCCTTCCAGCA
90599 T A A TGATGGACTCCCGTCCTCTGAGCCAGGGCCGTGTTCCTTCCAGCA
90599 IS [CA] ATGGGACAGGGGTACAGCGGGGGGACTCATCCAGCTGCTGGAAGGAACACGGCCCTGGCTC[CA]GAGGACGGGAGTCCATCAGAGGCCACTCCGGGCTCATCGAGACCACCGGCCGTGCCATCC ctg22fin4 22
90640 I A CCCATCTCCAAGGAGCCATAGTTAGATCATTCCAACATT
90640 P G A ATGACGTGGCACACGGTAGCAGAGTTACAACTGY
90640 P C A CGCGCCGAGGCGTAGCAGAGTTACAACTGY
90640 T G A GTCTCAGTTGTAACTCTGCTACCATGTTGGAATGATCTAACTATGGCTCCTTGGAGATGGGCA
90640 T C A GTCTCAGTTGTAACTCTGCTACGATGTTGGAATGATCTAACTATGGCTCCTTGGAGATGGGCA
90640 IS [GC] TAAACTCCACTACTTCTAAGTGCCCATCTCCAAGGAGCCATAGTTAGATCATTCCAACAT[GC]GTAGCAGAGTTACAACTGAGACAACTAACTGAACAGAGCTCCAGATGACTTTTAAGGTCC ctg22fin7 22
90676 I A GCCTCAGCTGCGCTGACGTGTATGTGA
90676 P C A ATGACGTGGCAGACGGTCATTCTGCTTTTGAAGY
90676 P T A CGCGCCGAGGTGTTCATTCTGCTTTTGAAGY
90676 T C A GTTTCTTCAAAAGCAGAATGAACGCACATACACGTCAGCGCAGCTGAGGCAG
90676 T T A GTTTCTTCAAAAGCAGAATGAACACACATACACGTCAGCGCAGCTGAGGCAG
90676 IS [CT] CGTAGCCACCACCGTCCCCGCAGCCTCCCCCACCTGCCTCAGCTGCGCTGACGTGTATGT[CT]GTTCATTCTGCTTTTGAAGAAACTCAGGAGTGGCTGGAGGAGACGGACTCGGAAGAGGAC
90900 I S TTGCCCGTCCTGGGGGAACGCT
90900 P T S CGCGCCGAGGAAAGCCCCCCTCCY
90900 P C S ATGACGTGGCAGACGAAGCCCCCCTCCY
90900 T T S AGCAGGAGGGGGGCTTGCGTCCCCCAGGACGGGCAAGG
90900 T C S AGCAGGAGGGGGGCTTCGCGTCCCCCAGGACGGGCAAGG
90900 IS [TC] CCGAGAGCGAGAGAAGGAGAACAGCAAGAGGGAGGAGCAGCAGGAGGGGGGCTT[TC]GCGTCCCCCAGCACGGGCAAGGGCAAGTGGAAGCGGAAGTCGGCAGGTGAAGAATCTCGTG
90927 I A GGAATTTATTTCATTTATTTACCTTGAAAAGTCTTAGCTGGAAATTGCTTATT
90927 P C A ATGACGTGGCAGACATTAAAAGTAATGTGTAGAAATACCAY
90927 P A A CGCGCCGAGGAATTAAAAGTAATGTGTAGAAATACCAY
90927 T C A CTTTTGGTATTTCTACACATTACTTTTAATGATAAGCAATTTCCAGCTAAGACTTTTCAAGGTAAATAAATGAAATAAAATTCCTG
90927 T A A CTTTTGGTATTTCTACACATTACTTTTAATTATAAGCAATTTCCAGCTAAGACTTTTCAAGGTAAATAAATGAAATAAAATTCCTG
90927 IS [CA] GTCCACAGGAATTTTATTTCATTTATTTACCTTGAAAAGTCTTAGCTGGAAATTGCTTATT[CA]ATTAAAAGTAATGTGTAGAAATACCAAAAGCTGTTCAATAAACCAATACCGAATAGTATT
90984 I A GGTGGGTGCTGACCCCACGTCTACTCT
90984 P G A ATGACGTGGCAGACGTCAGGGGGCCCY
90984 P A A CGCGCCGAGGATCAGGGGGCCCY
90984 T G A CGCCGGGGCCCCTGACGAGTAGACGTGGGGTCAGCACCCACCAA
90984 T A A CGCCGGGGCCCCTGATGAGTAGACGTGGGGTCAGCACCCACCAA
90984 IS [GA] ctg28098 3
91042 I S CTTCTAGATGTTATATTCGGTGTTCCTTTCCCGTGAC
91042 P T S CGCGCCGAGGATTTTGCCCAATATGTTTGCY
91042 P A S ATGACGTGGCAGACTTTTTGCCCAATATGTTTGCY
91042 T T S CTCTGCAAACATATTGGGCAAAATTCACGGGAAAGGAACACGGAATATAACATCTAGAAGAA
91042 T A S CTCTGCAAACATATTGGGCAAAAATCACGGGAAAGGAACACGGAATATAACATCTAGAAGAA
91042 IS [TA] CCCTGACATGCAAAGCGATGCCTGGTTGGAAGGAGGACTCTGCAAACATATTGGGCAAAA[TA]TCACGGGAAAGGAACACGGAATATAACATCTAGAAGAATGTTATCTTGTTTTCCACATT
91290 I A TCTACAAAGTAAAATTTTAAGAAGTTAAACTGTGGCTTAGCAATGATTTTAAATCAA
91290 P C A ATGACGTGGCAGACCAAGGAGAATACATATAAGCAGGY
91290 P T A CGCGCCGAGGTAAGGAGAATACATATAAGCAGGY
91290 T C A CTATCCTGCTTATATGTATTCTCCTTGTGATTTAAAATCATTGCTAAGCCACAGTTTAACTTCTTAAAATTTTACTTTGTAGAAA
91290 T T A CTATCCTGCTTATATGTATTCTCCTTATGATTTAAAATCATTGCTAAGCCACAGTTTAACTTCTTAAAATTTTACTTTGTAGAAA
91290 IS [CT] ATTTTCTACAAAGTAAAATTTTAAGAAGTTAAACTGTGGCTTAGCAATGATTTTAAATCA[CT]AAGAGAAATACATATAAGCAGGATAGATAGCTATTAATATTTGATTAGAAATTTTGTGGT ctg15131 10
91406 I S AGGCCCD TCTCAATCCCACACGGTGA
91406 P A S CGCGCCCAGGTCCACCCTTGCCCY
91406 P G S ATGACGTGGCAGACCCCACCCTTGCCCY
91406 T A S CTGCGGGCAAGGGTGGACACCGTGTGGGATTGAGAGGGGCCTGG
91406 T G S CTGCGGGCAAGGGTGGGCACCGTGTGGGATTGAGAGGGGCCTGG

FIGURE 129G

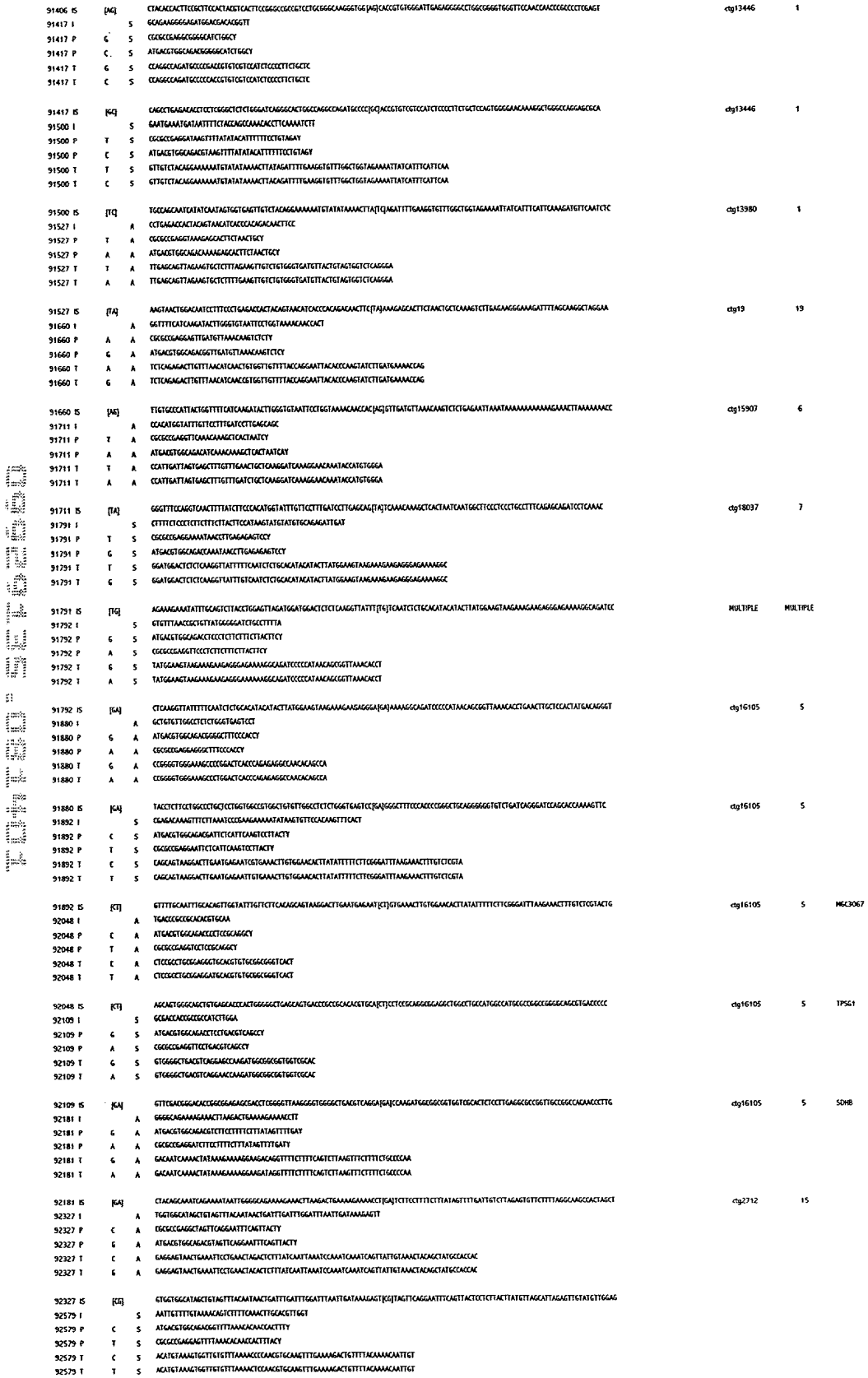

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91417 I S GCAGAAGGGGAGATGGACGACACGGTT
91417 P G S CGGGCCGAGGCGGGGCATCTGGCY
91417 P C S ATGACGTGGCAGACGGGGGCATCTGGCY
91417 T G S CCAGGCCAGATGCCCCGACCGTGTCGTCCATCTCCCCTTCTGCTC
91417 T C S CCAGGCCAGATGCCCCACCGTGTCGTCCATCTCCCCTTCTGCTC
91417 IS [GC] CAGCCTGAGACACCTCCTCGGGCTCTCTGGGATCAGGGCACTGGCCAGGCCAGATGCCCC[GC]ACCGTGTCGTCCATCTCCCCTTCTGCTCCAGTGGGGAACAAAGGCTGGGCCAGGAGCGCA ctg13446 1
91500 I S GAATGAAATGATAATTTTCTACGAGCCAAACACCTTCAAAATCTT
91500 P T S CGCGCCGAGGATAAGTTTTATATACATTTTTTCCTGTAGAY
91500 P C S ATGACGTGGCAGACGTAAGTTTTATATACATTTTTTCCTGTAGY
91500 T T S GTTGTCTACAGGAAAAAATGTATATAAAACTTATAGATTTTGAAGGTGTTTGGCTGGTAGAAAATTATCATTTCATTCAA
91500 T C S GTTGTCTACAGGAAAAAATGTATATAAAACTTACAGATTTTGAAGGTGTTTGGCTGGTAGAAAATTATCATTTCATTCAA
91500 IS [TC] TGCCAGCAATCATATCAATAGTGGTGAGTTGTCTACAGGAAAAAATGTATATAAAACTTA[TC]AGATTTTGAAGGTGTTTGGCTGGTAGAAAATTATCATTTCATTCAATCAAGATGTTCAATCTC ctg13980 1
91527 I A CCTGAGACCACTACAGTAACATCACCCACAGACAACTTCC
91527 P T A CGCGCCGAGGTAAAGAGCACTTCTAACTGCY
91527 P A A ATGACGTGGCAGACAAAAGAGCACTTCTAACTGCY
91527 T T A TTGAGCAGTTAGAAGTGCTCTTTAGAAGTTGTCTGTGGGTGATGTTACTGTAGTGGTCTCAGGGA
91527 T A A TTGAGCAGTTAGAAGTGCTCTTTTGAAGTTGTCTGTGGGTGATGTTACTGTAGTGGTCTCAGGGA
91527 IS [TA] AAGTAACTGGACAATCCTTTCCCTGAGACCACTACAGTAACATCACCCACAGACAACTTC[TA]AAAGAGCACTTCTAACTGCTCAAAGTCTTGAGAAGGGAAAGATTTTAGCAAGGCTAGGAA ctg19 19
91660 I A GGTTTTCATCAAGATACTTGGGTGTAATTCCTGGTAAAACAACCAC[AG]GTTGATGTTAAACAAGTCTCTGAGAATTAAATAAAAAAAAAAAAGAAACTTAAAAAAACC ctg15907 6
91660 P A A CGCGCCGAGGAGTTGATGTTAAACAAGTCTCTY
91660 P G A ATGACGTGGCAGACGGTTGATGTTAAACAAGTCTCY
91660 T A A TCTCAGAGACTTGTTTAACATCAACGGTGGTTGTTTTACCAGGAATTACACCCAAGTATCTTGATGAAAACCAG
91660 T G A TCTCAGAGACTTGTTTAACATCAACGGTGGTTGTTTTACCAGGAATTACACCCAAGTATCTTGATGAAAACCAG
91660 IS [AE] TTGTGCCCATTACTGGTTTTCATCAAGATACTTGGGTGTAATTCCTGGTAAAACAACCAC[AG]GTTGATGTTAAACAAGTCTCTGAGAATTAAATAAAAAAAAAAAGAAACTTAAAAAAACC ctg15907 6
91711 I A CCACATGGTATTTGTTCCTTTGATCCTTGAGCAGC
91711 P T A CGCGCCGAGGTTCAAACAAAGCTCACTAATCY
91711 P A A ATGAGGTGGCAGACATCAAACAAAGCTCACTAATCAY
91711 T T A CCATTGATTAGTGAGCTTTGTTTGAACTGCTCAAGGATCAAAGGAACAAATACCATGTGGGA
91711 T A A CCATTGATTAGTGAGCTTTGTTTGATCTGCTCAAGGATCAAAGGAACAAATACCATGTGGGA
91711 IS [TA] GGGTTTCCAGGTCAACTTTTATCTTCCCACATGGTATTTGTTCCTTTGATCCTTGAGCAG[TA]TCAAACAAAGCTCACTAATCAATGGCTTCCCTCCCTGCCTTTCAGAGCAGATCCTCAAAC ctg18037 7
91791 I S CTTTTCTCCCTCTTCTTTCTTACTTCCATAAGTATGTATGTGCAGAGATTGAT
91791 P T S CGCGCCGAGGAAAATAACCTTGAGAGAGTCCY
91791 P G S ATGACGTGGCAGACAAATAACCTTGAGAGAGTCCY
91791 T T S GGATGGACTCTCTCAAGGTTATTTTCAATCTCTGCACATACATACTTATGGAAGTAAGAAAGAAGAGGGAGAAAAGGC
91791 T G S GGATGGACTCTCTCAAGGTTATTTGTCAATCTCTGCACATACATACTTATGGAAGTAAGAAAGAAGAGGGAGAAAAGGC
91791 IS [TG] AGAAAGAAATATTTGCAGTCTTACCTGGAGTTAGATGGATGGACTCTCTCAAGGTTATTT[TG]TCAATCTCTGCACATACATACTTATGGAAGTAAGAAAGAAGAGGGAGAAAAGGCAGATCC MULTIPLE MULTIPLE
91792 I S GTGTTTAACCGCTGTTATGGGGGATCTGCCTTTTA
91792 P G S ATGACGTGGCAGACCTCCCTCTTCTTCTACTTCY
91792 P A S CGGCCCGAGGTTCCCTCTTCTTTCTTACTTCY
91792 T G S TATGGAAGTAAGAAAGAAGAGGGAGAAAAGGCAGATCCCCCATAACAGCGGTTAAACACCT
91792 T A S TATGGAAGTAAGAAAGAAGAGGGAGAAAAGGCAGATCCCCCATAACAGCGGTTAAACACCT
91792 IS [GA] CTCAAGGTTATTTTTCAATCTCTGCACATACATACTTATGGAAGTAAGAAAGAAGAGGGA[GA]AAAAGGCAGATCCCCCATAACAGCGGTTAAACACCTGAACTTGCTCCACTATGACAGGGT ctg16105 5
91880 I A GCTGTGTTGGCCTCTCTGGGTGAGTCCT
91880 P G A ATGACGTGGCAGACGGGGCTTTCCCACCY
91880 P A A CGCGCCGAGGAGGGCTTTCCCACCY
91880 T G A CCGGGGTGGGAAAGCCCCGGACTCACCCAGAGAGGCCAACACAGCCA
91880 T A A CCGGGGTGGGAAAGCCCTGGACTCACCCAGAGAGGCCAACACAGCCA
91880 IS [GA] TACCTCTTCCTGGCCCTGC[CT]CCTGGTGGCCGTGGCTGTGTTGGCCTCTCTGGGTGAGTCC[GA]GGGCTTTCCCACCCCGGGCTGCAGGGGGGTGTCTGATCAGGGATCCAGCACCAAAGTTC ctg16105 5
91892 I S CGAGACAAAGTTTCTTAAATCCCGAAGAAAAATATAAGTGTTCCACAAGTTTCACT
91892 P C S ATGACGTGGCAGACGATTCTCATTCAAGTCCTTACTY
91892 P T S CGCGCCGAGGAATTCTCATTCAAGTCCTTACTY
91892 T C S CAGCAGTAAGGACTTGAATGAGAATCGTGAAACTTGTGGAACACTTATATTTTTCTTCGGGATTTAAGAAACTTTGTCTCGTA
91892 T T S CAGCAGTAAGGACTTGAATGAGAATTGTGAAACTTGTGGAACACTTATATTTTTCTTCGGGATTTAAGAAACTTTGTCTCGTA
91892 IS [CT] GTTTTGCAATTTGCACAGTTGGTATTTGTTCTTCACAGCAGTAAGGACTTGAATGAGAAT[CT]GTGAAACTTGTGGAACACTTATATTTTTCTTCGGGATTTAAGAAACTTTGTCTCGTACTG ctg16105 5 MGC3067
92048 I A TGACCCGCCGCACACGTGCAA
92048 P C A ATGACGTGGCAGACCCCTCCGCAGGCY
92048 P T A CGCGCCGAGGTCCTCCGCAGGCY
92048 T C A CTCCGCCTGCGGAGGAGTGCAGTGTGCGGCGGGTCACT
92048 T T A CTCCGCCTGCGGAGGATGCAGTGTGCGGCGGGTCACT
92048 IS [CT] AGCAGTGGGCAGCTGTGAGCACCCACTGGGGGCTGAGCAGTGACCCGCCGCACACGTGCA[CT]CCTCCCGCAGGGGGAGGCTGGCCTGCCATGGCCATGGCCCGGCCGGGCAGCCTGACCCCC ctg16105 5 TPSG1
92109 I S GCGACCACCGCCGCCATCTTGGA
92109 P G S ATGACGTGGCAGACCTCCTGAGGTCAGCCY
92109 P A S CGGCCGAGGTTCCTGACGTCAGCCY
92109 T G S GTGGGGCTGACGTCAGGAGCCAAGATGGCGGCGGTGGTCGCAC
92109 T A S GTGGGGCTGACGTCAGGAACCAAGATGGCGGCGGTGGTCGCAC
92109 IS [GA] GTTCGACGGACACCGGCGGAGAGCCGACCTCGGGGTTAAGGGGTGGGGCTGAGGTCAGGA[GA]CCAAGATGGCGGCGGTGGTCGCACTCTCCTTGAGGCGCCGGTTGCCGGCCACAACCCTTG ctg16105 5 SDHB
92181 I A GGGGCAGAAAAGAAACTTAAGACTGAAAAGAAAACCTT
92181 P G A ATGACGTGGCAGACGTCTTCCTTTTCTTTATAGTTTTGAY
92181 P A A CGCGCCGAGGATCTTCCTTTTCTTTATAGTTTTGAYY
92181 T G A GACAATCAAAACTATAAAGAAAAGGAAGACAGGTTTTCTTTTCAGTCTTAAGTTTCTTTTCTGCCCCAA
92181 T A A GACAATCAAAACTATAAAGAAAAGGAAGATAGGTTTTCTTTTCAGTCTTAAGTTTCTTTTCTGCCCCAA
92181 IS [GA] CTACAGCAAATCAGAAAATAATTGGGGCAGAAAAGAAACTTAAGACTGAAAAGAAAACCT[GA]CTTCCTTTTCTTTATAGTTTTGATTGTCTTAGAGTGTTCTTTTAGGCAAGCCACTAGCT ctg2712 15
92327 I A TGGTGGCATAGCTGTAGTTTACAATAACTGATTTGATTTGGATTTAATTGATAAAGAGT[CG]TAGTTCAGGAATTTCAGTTACTCCTCTTACTTATGTTAGCATTAGAGTTGTATGTTGGAG
92327 P C A ATGACGTGGCAGACGGTTTTAAAACACAACCACTTTY
92327 P G A CGCGCCGAGGAGTTTTAAACACAACCACTTTACY
92327 T C A GAGGAGTAACTGAAATTCCTGAACTAGACTCTTTATCAATTAAATCCAAATCAAATCAGTTATTGTAAACTACAGCTATGCCACCAC
92327 T G A GAGGAGTAACTGAAATTCCTGAACTACACTCTTTATCAATTAAATCCAAATCAAATCAGTTATTGTAAACTACAGCTATGCCACCAC
92327 IS [CG] GTGGTGGCATAGCTGTAGTTTACAATAACTGATTTGATTTGGATTTAATTGATAAAGAGT[CG]TAGTTCAGGAATTTCAGTTACTCCTCTTACTTATGTTAGCATTAGAGTTGTATGTTGGAG
92579 I S AATTGTTTTGTAAAACAGTCTTTTCAAACTTGCACGTTGGT
92579 P C S ATGACGTGGCAGACGGTTTTAAAACACAACCACTTTY
92579 P T S CGCGCCGAGGAGTTTTAAACACAACCACTTTACY
92579 T C S ACATGTAAAGTGGTTGTGTTTAAAACCCCAACGTGCAAGTTTGAAAAGACTGTTTTACAAAACAATTGT
92579 T T S ACATGTAAAGTGGTTGTGTTTAAAACTCCAACGTGCAAGTTTGAAAAGACTGTTTTACAAAACAATTGT

FIGURE 129G

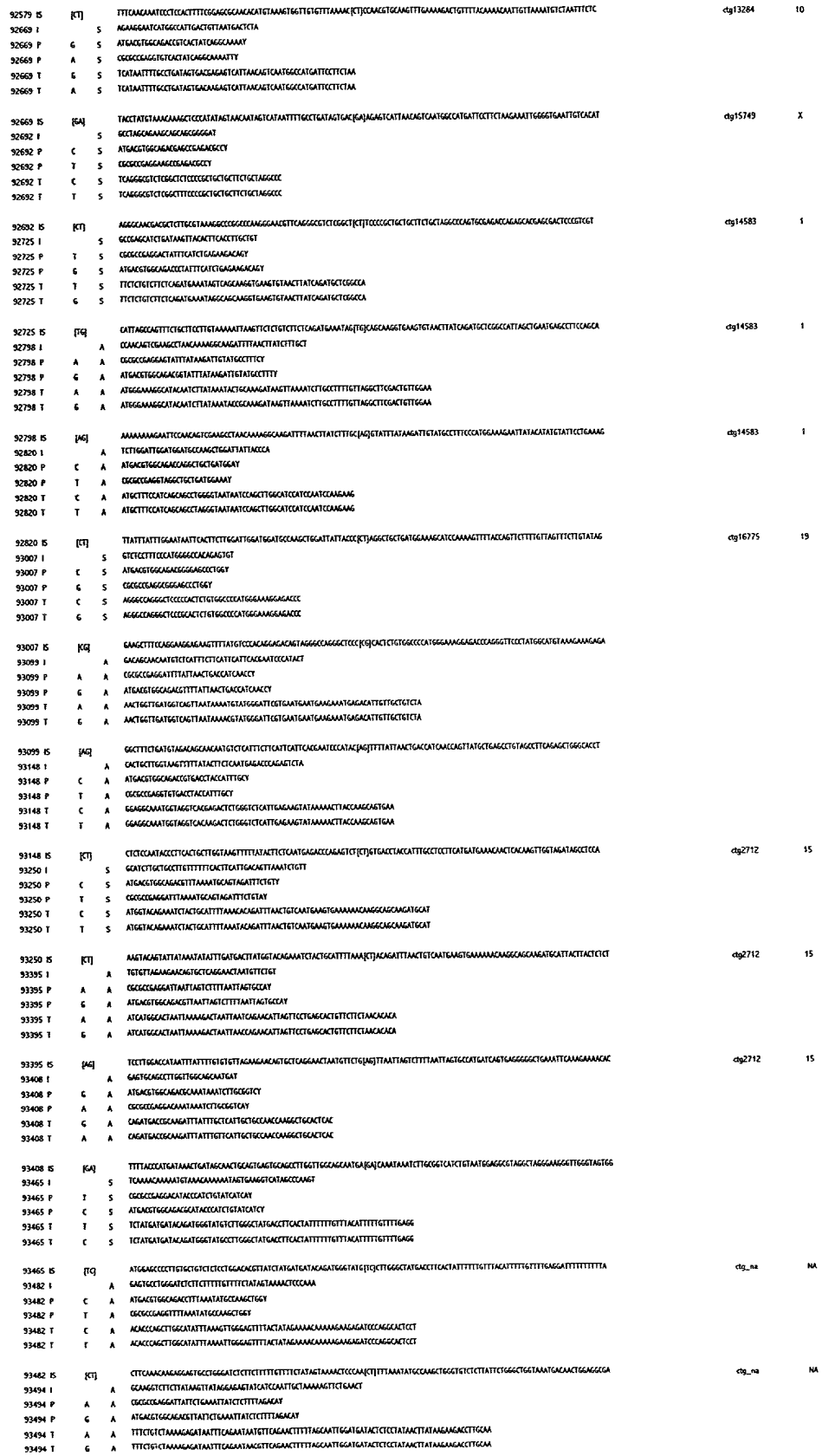

92579 IS [CT] TTTCAACAAATCCCTCCACTTTTCGGAGCGCAACACATGTAAAGTGGTTGTGTTTAAAAC[CT]CCAACGTGCAAGTTTGAAAAGACTGTTTTACAAAACAATTGTTAAAATGTCTAATTTCTC ctg13284 10
92669 I S AGAAGGAATCATGGCCATTGACTGTTAATGACTCTA
92669 P G S ATGACGTGGCAGACCGTCACTATCAGGCAAAAY
92669 P A S CGCGCCGAGGTGTCACTATCAGGCAAAATTY
92669 T G S TCATAATTTTGCCTGATAGTGACGAGAGTCATTAACAGTCAATGGCCATGATTCCTTCTAA
92669 T A S TCATAATTTTGCCTGATAGTGACAAGAGTCATTAACAGTCAATGGCCATGATTCCTTCTAA
92669 IS [GA] TACCTATGTAAACAAAGCTCCCATATAGTAACAATAGTCATAATTTTGCCTGATAGTGAC[GA]AGAGTCATTAACAGTCAATGGCCATGATTCCTTCTAAGAAATTGGGGTGAATTGTCACAT ctg15749 X
92692 I S GCCTAGCAGAAGCAGCAGCGGGGAT
92692 P C S ATGACGTGGCAGACGAGCCGAGACGCCY
92692 P T S CGCGCCGAGGAAGCCGAGACGCCY
92692 T C S TCAGGGCGTCTCGGCTCTCCCCGCTGCTGCTTCTGCTAGGCCC
92692 T T S TCAGGGCGTCTCGGCTTTCCCCGCTGCTGCTTCTGCTAGGCCC
92692 IS [CT] AGGGCAACGACGCTCTTGCGTAAAGGCCCGGCCCAAGGGAACGTTCAGGGCGTCTCGGCT[CT]TCCCCGCTGCTGCTTCTGCTAGGCCAGTGCGAGACCAGAGCACGAGCGACTCCCGTCGT ctg14583 1
92725 I S GCCGAGCATCTGATAAGTTACACTTCACCTTGCTGT
92725 P T S CGCGCCGAGGACTATTTCATCTGAGAAGACAGY
92725 P G S ATGACGTGGCAGACCCTATTTCATCTGAGAAGACAGY
92725 T T S TTCTCTGTCTTCTCAGATGAAATAGTCAGCAAGGTGAAGTGTAACTTATCAGATGCTCGGCCA
92725 T G S TTCTCTGTCTTCTCAGATGAAATAGGCAGCAAGGTGAAGTGTAACTTATCAGATGCTCGGCCA
92725 IS [TG] CATTAGCCAGTTTCTGCTTCCTTGTAAAAATTAAGTTCTCTGTCTTCTCAGATGAAATAG[TG]CAGCAAGGTGAAGTGTAACTTATCAGATGCTCGGCCATTAGCTGAATGAGCCTTCCAGCA ctg14583 1
92798 I A CCAACAGTCGAAGCCTAACAAAAGGCAAGATTTTAACTTATCTTTGCT
92798 P A A CGCGCCGAGGAGTATTTATAAGATTGTATGCCTTTCY
92798 P G A ATGACGTGGCAGACGGTATTTATAAGATTGTATGCCTTTY
92798 T A A ATGGGAAAGGCATACAATCTTATAAATACTGCAAAGATAAGTTAAAATCTTGCCTTTTGTTAGGCTTCGACTGTTGGAA
92798 T G A ATGGGAAAGGCATACAATCTTATAAATACCGCAAAGATAAGTTAAAATCTTGCCTTTTGTTAGGCTTCGACTGTTGGAA
92798 IS [AG] AAAAAAAGAATTCCAACAGTCGAAGCCTAACAAAAGGCAAGATTTTAACTTATCTTTGC[AG]GTATTTATAAGATTGTATGCCTTTCCCATGGAAAGAATTATACATATGTATTCCTGAAAG ctg14583 1
92820 I A TCTTGGATTGGATGGCCAAGCTGGATTATTACCCA
92820 P C A ATGACGTGGCAGACCAGGCTGCTGATGGAY
92820 P T A CGCGCCGAGGTAGGCTGCTGATGGAAAY
92820 T C A ATGCTTTCCATCAGCAGCCTGGGGTAATAATCCAGCTTGGCATCCATCCAATCCAAGAAG
92820 T T A ATGCTTTCCATCAGCAGCCTAGGGTAATAATCCAGCTTGGCATCCATCCAATCCAAGAAG
92820 IS [CT] TTATTTATTTGGAATAATTCACTTCTTGGATTGGATGGATGCCAAGCTGGATTATTACCC[CT]AGGCTGCTGATGGAAAGCATCCAAAAGTTTTACCAGTTCTTTTGTTAGTTTCTTGTATAG ctg16775 19
93007 I S GTCTCCTTTCCCATGGGGCCACAGAGTGT
93007 P C S ATGACGTGGCAGACGGGGAGCCCTGGY
93007 P G S CGCGCCGAGGCGGGAGCCCTGGY
93007 T C S AGGGCCAGGGCTCCCCCACTCTGTGGCCCCATGGGAAAGGAGACCC
93007 T G S AGGGCCAGGGCTCCCGCACTCTGTGGCCCCATGGGAAAGGAGACCC
93007 IS [CG] GAAGCTTTCCAGGAAGGAGAAGTTTTATGTCCCACAGGAGACAGTAGGGCCAGGGCTCCC[CG]CACTCTGTGGCCCCATGGGAAAGGAGACCCAGGGTTCCCTATGGCATGTAAAGAAAGAGA
93099 I A GACAGCAACAATGTCTCATTTCTTCATTCATTCACGAATCCCATAC
93099 P A A CGCGCCGAGGATTTTATTAACTGACCATCAACCY
93099 P G A ATGACGTGGCAGACGTTTTATTAACTGACCATCAACCY
93099 T A A AACTGGTTGATGGTCAGTTAATAAAATGTATGGGATTCGTGAATGAATGAAGAAATGAGACATTGTTGCTGTCTA
93099 T G A AACTGGTTGATGGTCAGTTAATAAAACGTATGGGATTCGTGAATGAATGAAGAAATGAGACATTGTTGCTGTCTA
93099 IS [AG] GGCTTTCTGATGTAGACAGCAACAATGTCTCATTTCTTCATTCATTCACGAATCCCATAC[AG]TTTTATTAACTGACCATCAACCAGTTATGCTGAGCCTGTAGCCTTGAGAGCTGGGCACCT
93148 I A CACTGCTTGGTAAGTTTTTATACTTCTCAATGAGACCCAGAGTCTA
93148 P C A ATGACGTGGCAGACCGTGACCTACCATTTGCY
93148 P T A CGCGCCGAGGTGTGACCTACCATTTGCY
93148 T C A GGAGGCAAATGGTAGGTCAGGAGACTCTGGGTCTCATTGAGAAGTATAAAAACTTACCAAGCAGTGAA
93148 T T A GGAGGCAAATGGTAGGTCACAAGACTCTGGGTCTCATTGAGAAGTATAAAAACTTACCAAGCAGTGAA
93148 IS [CT] CTCTCCAATACCCTTCACTGCTTGGTAAGTTTTTATACTTCTCAATGAGACCCAGAGTCT[CT]GTGACCTACCATTTGCCTCCTTCATGATGAAACAACTCACAAGTTGGTAGATAGCCTCCA ctg2712 15
93250 I S GCATCTTGCTGCCTTGTTTTTTCACTTCATTGACAGTTAAATCTGTT
93250 P C S ATGACGTGGCAGACGTTTAAAATGCAGTAGATTTCTGTY
93250 P T S CGCGCCGAGGATTTAAAATGCAGTAGATTTCTGTAY
93250 T C S ATGGTACAGAAATCTACTGCATTTTAAACACAGATTTAACTGTCAATGAAGTGAAAAAACAAGGCAGCAAGATGCAT
93250 T T S ATGGTACAGAAATCTACTGCATTTTAAATACAGATTTAACTGTCAATGAAGTGAAAAAACAAGGCAGCAAGATGCAT
93250 IS [CT] AAGTACAGTATTATAAATATATTTGATGACTTATGGTACAGAAATCTACTGCATTTTAAA[CT]ACAGATTTAACTGTCAATGAAGTGAAAAAACAAGGCAGCAAGATGCATTACTTACTCTCT ctg2712 15
93395 I A TGTGTTAGAAGAACAGTGCTCAGGAACTAATGTTCTGT
93395 P A A CGCGCCGAGGATTAATTAGTCTTTAATTAGTGCCAY
93395 P G A ATGACGTGGCAGACGTTAATTAGTCTTTAATTAGTGCCAY
93395 T A A ATCATGGCACTAATTAAAAGACTAATTAATCAGAACATTAGTTCCTGAGCACTGTTCTTCTAACACACA
93395 T G A ATCATGGCACTAATTAAAAGACTAATTAACCAGAACATTAGTTCCTGAGCACTGTTCTTCTAACACACA
93395 IS [AG] TCCTTGGACCATAATTTATTTGTGTGTTAGAAGAACAGTGCTCAGGAACTAATGTTCTG[AG]TTAATTAGTCTTTTAATTAGTGCCATGATCAGTGAGGGGGCTGAAATTCAAAGAAAACAC ctg2712 15
93408 I A GAGTGCAGCCTTGGTTGGCAGCAATGAT
93408 P G A ATGACGTGGCAGACGCAAATAAATCTTGCGGTCY
93408 P A A CGCGCCGAGGACAAATAAATCTTGCGGTCAY
93408 T G A CAGATGACGCAAGATTTATTTGCTCATTGCTGCCAACCAAGGCTGCACTCAC
93408 T A A CAGATGACGCAAGATTTATTTGTTCATTGCTGCCAACCAAGGCTGCACTCAC
93408 IS [GA] TTTTACCCATGATAAACTGATAGCAACTGCAGTGAGTGCAGCCTTGGTTGGCAGCAATGA[GA]CAAATAAATCTTGCGGTCATCTGTAATGGAGGCGTAGGCTAGGGAAGGGTTGGGTAGTGG
93465 I S TCAAACAAAAATGTAAACAAAAAATAGTGAAGGTCATAGCCCAAGT
93465 P T S CGCGCCGAGGACATACCCATCTGTATCATCAY
93465 P C S ATGACGTGGCAGACGCATACCCATCTGTATCATCY
93465 T T S TCTATGATGATACAGATGGGTATGTCTTGGGCTATGACCTTCACTATTTTTTGTTTACATTTTTGTTTTGAGG
93465 T C S TCTATGATGATACAGATGGGTATGCCTTGGGCTATGACCTTCACTATTTTTTGTTTACATTTTTGTTTTGAGG
93465 IS [TC] ATGGAGCCCCTTGTGCTGTCTCTCCTGGACACGTTATCTATGATGATACAGATGGGTATG[TC]CTTGGGCTATGACCTTCACTATTTTTTGTTTACATTTTTGTTTTGAGGATTTTTTTTTTA ctg_na NA
93482 I A GAGTGCCTGGGATTCTCTTCTTTTTGTTTTCTATAGTAAAACTCCCAAA
93482 P C A ATGACGTGGCAGACCTTTAAATATGCCAAGCTGGY
93482 P T A CGCGCCGAGGTTTTAAATATGCCAAGCTGGY
93482 T C A ACACCCAGCTTGGCATATTTAAAGTTGGGAGTTTTACTATAGAAAACAAAAAGAAGAGATCCCAGGCACTCCT
93482 T T A ACACCCAGCTTGGCATATTTAAAATTGGGAGTTTTACTATAGAAAACAAAAAGAAGAGATCCCAGGCACTCCT
93482 IS [CT] CTTCAAACAAGAGGAGTGCCTGGGATCTCTTCTTTTTGTTTTCTATAGTAAAACTCCCAA[CT]TTTAAATATGCCAAGCTGGGTGTCTCTTATTCTGGGCTGGTAAATGACAACTGGAGGCGA ctg_na NA
93494 I A GCAAGGTCTTCTTATAAGTTATAGGAGAGTATCATCCAATTGCTAAAAAGTTCTGAACT
93494 P A A CGCGCCGAGGATTATTCTGAAATTATCTCTTTTAGACAY
93494 P G A ATGACGTGGCAGACGTTATTCTGAAATTATCTCTTTTAGACAY
93494 T A A TTTCTGTCTAAAAGAGATAATTTCAGAATAATGTTCAGAACTTTTTAGCAATTGGATGATACTCTCCTATAACTTATAAGAAGACCTTGCAA
93494 T G A TTTCTGTCTAAAAGAGATAATTTCAGAATAACGTTCAGAACTTTTTAGCAATTGGATGATACTCTCCTATAACTTATAAGAAGACCTTGCAA

FIGURE 129G

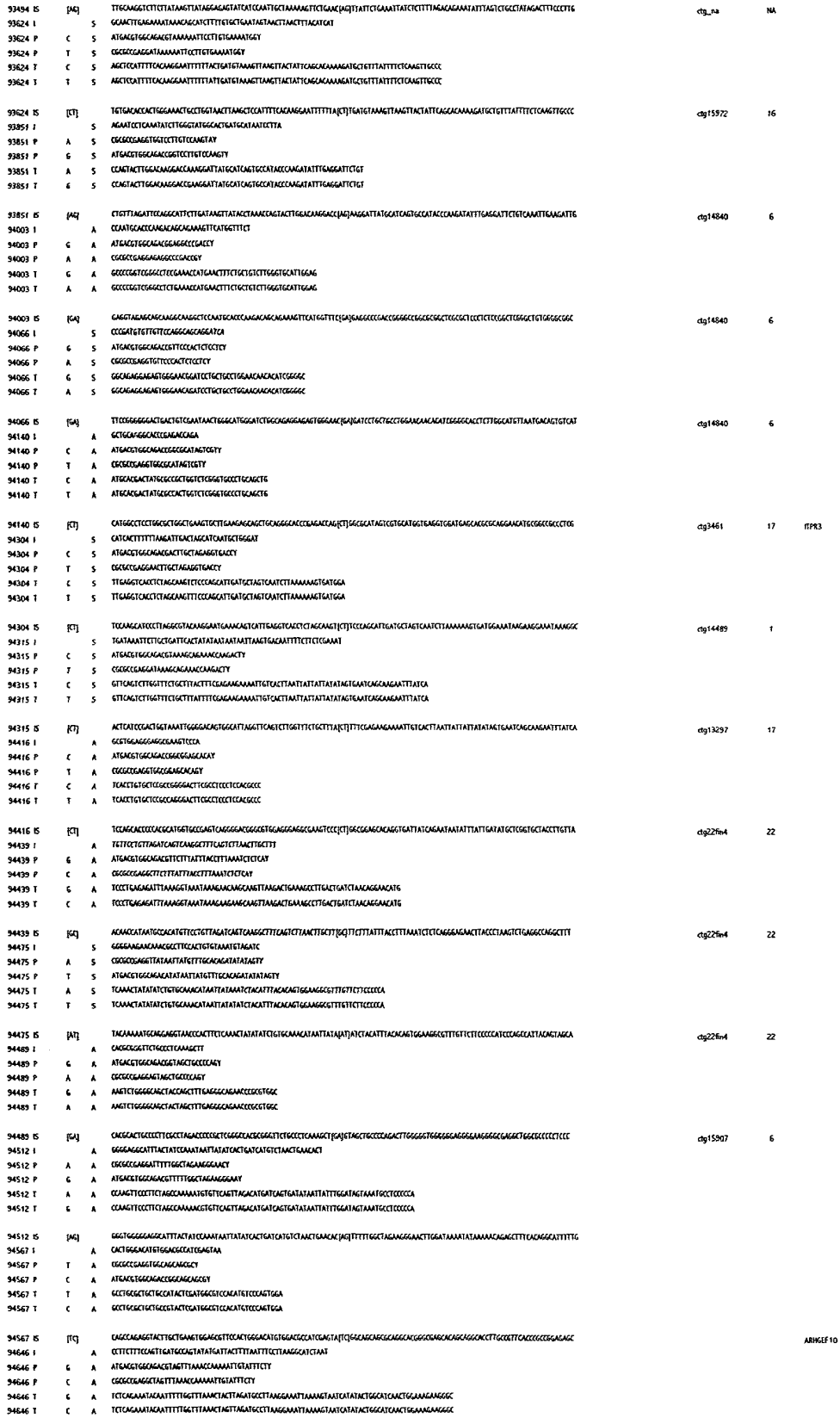
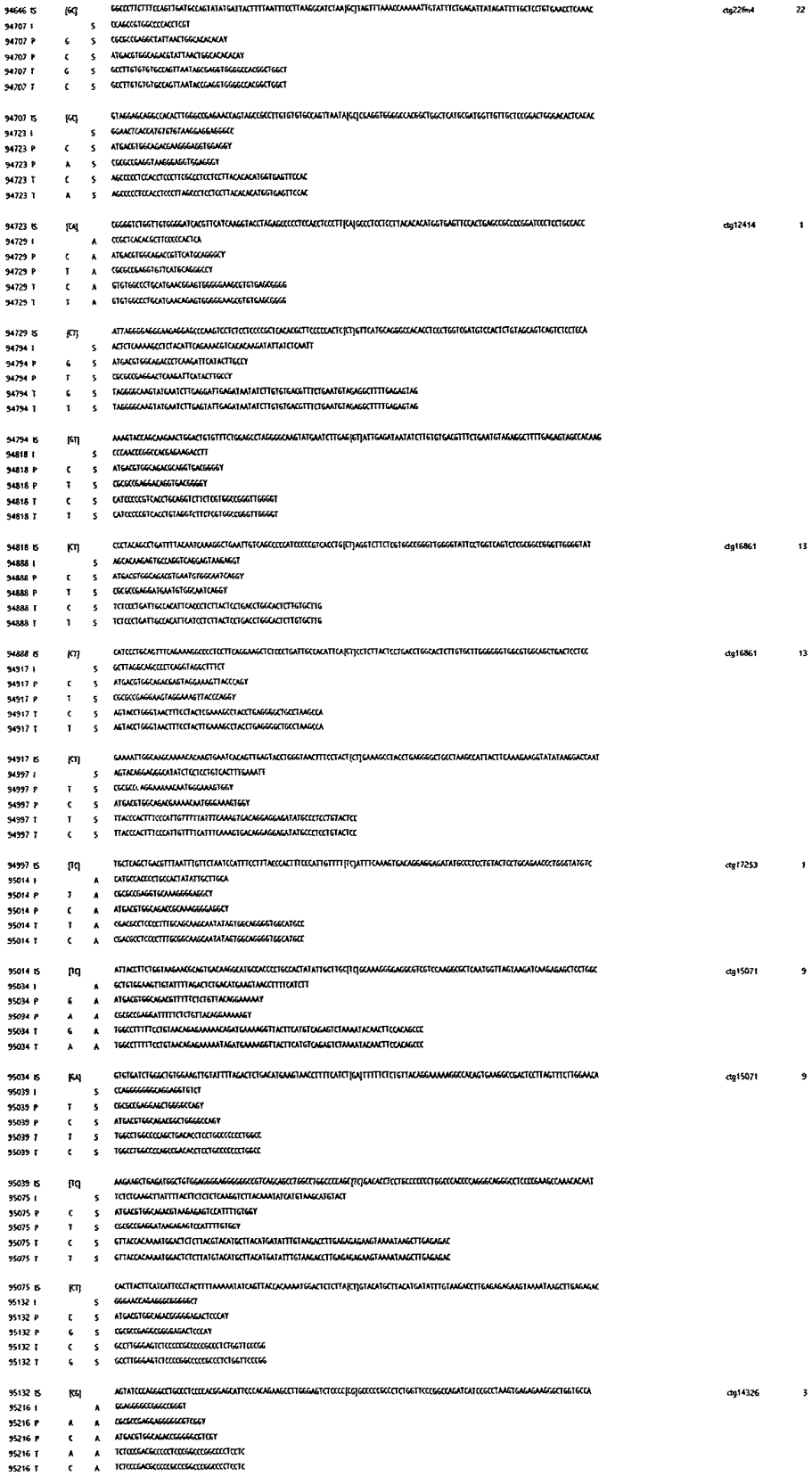

93494 IS [AG] TTGCAAGGTCTTCTTATAAGTTATAGGAGAGTATCATCCAATTGCTAAAAAGTCTGAAC[AG]TTATTCTGAAATTATCTCTTTTAGACAGAAATATTTAGTCTGCCTATAGACTTTCCCTTG ctg_na NA
93624 I S GCAACTTGAGAAAATAAACAGCATCTTTTGTGCTGAATAGTAACTTAACTTTACATCAT
93624 P C S ATGAGGTGGCAGAGCGTAAAAAATTCCTTGTGAAAATGGY
93624 P T S CGCGCCGAGGATAAAAAATTCCTTGTGAAAATGGY
93624 T C S AGCTCCATTTTCACAAGGAATTTTTTACTGATGTAAAGTTAAGTTACTATTCAGCACAAAAGATGCTGTTTATTTTCTCAAGTTGCCC
93624 T T S AGCTCCATTTTCACAAGGAATTTTTTATTGATGTAAAGTTAAGTTACTATTCAGCACAAAAGATGCTGTTTATTTTCTCAAGTTGCCC
93624 IS [CT] TGTGACACCACTGGGAAACTGCCTGGTAACTTAAGCTCCATTTTCACAAGGAATTTTTTA[CT]TGATGTAAAGTTAAGTTACTATTCAGCACAAAAGATGCTGTTTATTTTCTCAAGTTGCCC ctg15972 16
93851 I S AGAATCCTCAAATATCTTGGGTATGGCACTGATGCATAATCCTTA
93851 P A S CGCGCCGAGGTGGTCCTTGTCCAAGTAY
93851 P G S ATGACGTGGCAGACCCGGTCCTTGTCCAAGTY
93851 T A S CCAGTACTTGGACAAGGACCAAAGGATTATGCATCAGTGCCATACCCAAGATATTTGAGGATTCTGT
93851 T G S CCAGTACTTGGACAAGGACCGAAGGATTATGCATCAGTGCCATACCCAAGATATTTGAGGATTCTGT
93851 IS [AC] CTGTTTAGATTCCAGGCATTCTTGATAAGTTATACCTAAACCAGTACTTGGACAAGGACC[AC]AAGGATTATGCATCAGTGCCATACCCAAGATATTTGAGGATTCTGTCAAATTGAAGATTG ctg14840 6
94003 I A CCAATGCACCCAAGACAGCAGAAAGTTCATGGTTTCT
94003 P G A ATGACGTGGCAGACGGAGGCCGACCY
94003 P A A CGCGCCGAGGAGAGGCCCGACCGY
94003 T G A GCCCCGGTCGGGCCTCCGAAACCATGAACTTTCTGCTGTCTTGGGTGCATTGGAG
94003 T A A GCCCCGGTCGGGCCTCTGAAACCATGAACTTTCTGCTGTCTTGGGTGCATTGGAG
94003 IS [GA] GAGGTAGAGCAGCAAGGCAAGGCTCCAATGCACCCAAGACAGCAGAAAGTTCATGGTTTC[GA]GAGGCCCGACCGGGGCCCGGCGCGGCTCCGCGCTCCCTCTCCGGCTCGGGCTGTGAGGCGGC ctg14840 6
94066 I S CCCGATGTGTTGTCCAGGCAGCAGGATCA
94066 P G S ATGACGTGGCAGACCGGCGGATAGTGGTY
94066 P A S CGCGCCGAGGTGGCCATAGTGGTY
94066 T G S GGCAGAGGAGAGTGGGAACGATCCTGCTGCTGGCTGGAACAACACATCGGGGC
94066 T A S GGCAGAGGAGAGTGGGAACGATCCTGCTGCCTGGAACAACACATCGGGGC
94066 IS [GA] TTCCGGGGGGACTGACTGTCGAATAACTGGGCATGGGATCTGGCAGAGGAGAGTGGGAAC[GA]GATCCTGCTGCCTGGAACAACACATCGGGGCACCTCTTGGCATGTTAATGACAGTGTCAT ctg14840 6
94140 I A GCTGCAFGGGCACCCGAGACAGA
94140 P C A ATGACGTGGCAGACCGGCGGATAGTGGTY
94140 P T A CGCGCCGAGGTGGCGCATAGTGGTY
94140 T C A ATGCACGACTATGCGCCCACTGGTCTCGGGTGCCCTGCAGCTG
94140 T T A ATGCACGACTATGCGCCACTGGTCTCGGGTGCCCTGCAGCTG
94140 IS [CT] CATGGCCTCCTGGCGCTGGCTGAAGTGCTTGAAGACGAGCTGCAGGGCACCCGAGACCAG[CT]GACGCATAGTCGTGCATGGTGAGGTGGATGACGACGCGCAGGAACATGCGGCCGCCCTCG ctg3461 17 ITPR3
94304 I S CATCACTTTTTAAGATTGACTAGCATCAATGCTGGGAT
94304 P C S ATGACGTGGCAGACGACTTGCTAGAGGTGACCY
94304 P T S CGCGCCGAGGAACTTGCTAGAGGTGACCY
94304 T C S TTGAGGTCACCTCTAGCAAGTCTCCCAGCATTGATGCTAGTCAATCTTAAAAAAGTGATGGA
94304 T T S TTGAGGTCACCTCTAGCAAGTTCCCAGCATTGATGCTAGTCAATCTTAAAAAAGTGATGGA
94304 IS [CT] TCCAAGCATCCCCTTAGGCGTACAAGGAATGAAACAGTCATTGAGGTCACCTCTAGCAAGT[CT]TCCCAGCATTGATGCTAGTCAATCTTAAAAAAGTGATGGAAATAAGAAGGAAATAAAGGC ctg14489 1
94315 I S TGATAAATTCTTGCTGATTCACTATATAATAATAATTAAGTGACAATTTTCTTCTCGAAAT
94315 P C S ATGACGTGGCAGACGGAAAGCAGAAACGAAGACTY
94315 P T S CGCGCCGAGGATAAAGCAGAAACGAAGACTY
94315 T C S GTTCAGTCTTGGTTTCTGCTTTACTTCGAGAAGAAAATTGTCACTTAATTATTATATAGTGAATCAGCAAGAATTTATCA
94315 T T S GTTCAGTCTTGGTTTCTGCTTTATTTTCGAGAAGAAAATTGTCACTTAATTATTATATAGTGAATCAGCAAGAATTTATCA
94315 IS [CT] ACTCATCCGACTGGTAAATTGGGGACAGTGGCATTAGGTTCAGTCTTGGTTTCTGCTTTA[CT]TTTCGAGAAGAAAATTGTCACTTAATTATTATATAGTGAATCAGCAAGAATTTATCA ctg13297 17
94416 I A GCGTGCAGGGAAGGCGAAGTCCCA
94416 P C A ATGACGTGGCAGACCGGCGGAGACACAY
94416 P T A CGCGCCGAGGTGGCGGAGACAGY
94416 T C A TCACCTGTGCTCCGCCAGGGACTTCGCCTCCCTCCACGCCC
94416 T T A TCACCTGTGCTCCGCCAGGGACTTCGCCTCCCTCCACGCCC
94416 IS [CT] TCCAGCACCCCACGCATGGTGCCGAGTCAGGGGACGGGCGTGGAGGGAGGCCAAGTCCCC[CT]GGCCGGAGCACAGGTGATTATCAGAATAATATTTATTGATATGCTCGGTGCTACCTTGTTA ctg22fin4 22
94439 I A TGTTCCTGTTAGATCAGTCAAGGCTTTCAGTCTTAACTTGCTTT
94439 P G A ATGACGTGGCAGACGTTCTTTATTTACCTTAAATCTCTCAY
94439 P C A CGCGCCGAGGCTTCTTTATTTACCTTTAAATCTCTCAY
94439 T G A TCCCTGAGAGATTTAAAGGTAAATAAAGAACAAGCAAGTTAAGACTGAAAGCCTTGACTGATCTAACAGGAACATG
94439 T C A TCCCTGAGAGATTTAAAGGTAAATAAAGAAGAAGCAAGTTAAGACTGAAAGCCTTGACTGATCTAACAGGAACATG
94439 IS [GC] ACAACCATAATGCCACATGTTCCTGTTAGATCAGTCAAGGCTTTCAGTCTTAACTTGCTT[GC]TTCTTTATTTACCTTTAAATCTCTCAGGGAGAACTTACCCTAAGTCTGAGGCCAGGCTTT ctg22fin4 22
94475 I S GGGGAAGAACAACGCCTTCCACTGTGTAAATGTAGATC
94475 P A S CGCGCCGAGGTTATAATTATGTTTGCACAGATATATAGTY
94475 P T S ATGACGTGGCAGACATATAATTATGTTTGCACAGATATATAGTY
94475 T A S TCAAACTATATATCTGTGCAAACATAATTATAAATCTACATTTACACAGTGGAAGGCGTTTGTCTCTCCCCCA
94475 T T S TCAAACTATATATCTGTGCAAACATAATTATATATCTACATTTACACAGTGGAAGGCGTTTGTCTCTCCCCCA
94475 IS [AT] TACAAAAATGCAAGAAGGTAACCCACTTCTCAAACTATATATCTGTGCAAACATAATTATATA[AT]ATCTACATTTACACAGTGGAAGGCGTTTGTCTCTCCCCCATCCCAGCCATTACAGTAGCA ctg22fin4 22
94489 I A CACGCGCGTTCTGCCCTCAAAGCTT
94489 P G A ATGACGTGGCAGACGGTAGCTGCCCCAGY
94489 P A A CGCGCCGAGGAGTAGCTGCCCCAGY
94489 T G A AAGTCTGGGGCAGCTACCAGCTTTGAAGGCAGAACCCGCGTGGC
94489 T A A AAGTCTGGGGCAGCTACTAGCTTTGAAGGCAGAACCCGCGTGGC
94489 IS [GA] CACGCACTGCCCCTTCGCCTAGACCCCCGCTCGGGCCACGCGGGTTCTGCCCTCAAAGCT[GA]GTAGCTGCCCCAGACTTGGGGGTGGGGGCAGGGGAAGGGGCGAGGCTGGCGCCCCTCCC ctg15907 6
94512 I A GGGGAGGCATTTACTATCCAAATAATTATATCACTGATCATGTCTAACTGAACACT
94512 P A A CGCGCCGAGGATTTTGGCTAGAAGGGAACY
94512 P G A ATGACGTGGCAGAAGGTTTTTGGCTAGAAGGGAAY
94512 T A A CCAAGTTCCCTTCTAGCCAAAAATGTGTCAGTTAGACATGATCAGTGATATAATTATTTGGATAGTAAATGCCTCCCCCA
94512 T G A CCAAGTTCCCTTCTAGCCAAAAACGTGTCAGTTAGACATGATCAGTGATATAATTATTTGGATAGTAAATGCCTCCCCCA
94512 IS [AG] GGGTGGGGGAGGCATTTACTATCCAAATAATTATATCACTGATCATGTCTAACTGAACAC[AG]TTTTTGGCTAGAAGGGAACTTGGATAAAATATAAAAACAGACCTTCACAGGCATTTTTG
94567 I A CACTGGGACATGTGGGACGCCATCGAGTAA
94567 P T A CGCGCCGAGGTGGCAGCAGCGCY
94567 P C A ATGACGTGGCAGACCGGCAGCAGCGY
94567 T T A GCCTGCGCTGCTGCCATACTCGATGGCGTCCACATGTCCCAGTGGA
94567 T C A GCCTGCGCTGCTGCCGTACTCGATGGCGTCCACATGTCCCAGTGGA
94567 IS [TC] CAGCCAGAGGTACTTGCTGAAGTGGAGCGTTCCACTGGGACATGTGGACGCCATCGAGTAT[C]GGCAGCAGCGCAGGCACGGCGGAGCACAGCAGGCACCTTGCCGTTCACCCCCCGGAGAGC ARHGEF10
94646 I A CCTTCTTTCCAGTTGATGCCAGTATATGATTACTTTTAATTTCCTTAAGGCATCTAAT
94646 P G A ATGAGGTGGCAGACGTAGTTTAAACCAAAAATTGTATTTCTY
94646 P C A CGCGCCGAGGCTAGTTTAAACCAAAAATTGTATTTCTY
94646 T G A TCTCAGAAATACAATTTTTGGTTTAAACTACTTAGATGCCTTAAGGAAATTAAAAGTAATCATATACTGGCATCAACTGGAAAGAAGGGC
94646 T C A TCTCAGAAATACAATTTTTGGTTTAAACTAGTTAGATGCCTTAAGGAAATTAAAAGTAATCATATACTGGCATCAACTGGAAAGAAGGGC

FIGURE 129G



Sequence Listing

FIGURE 129G

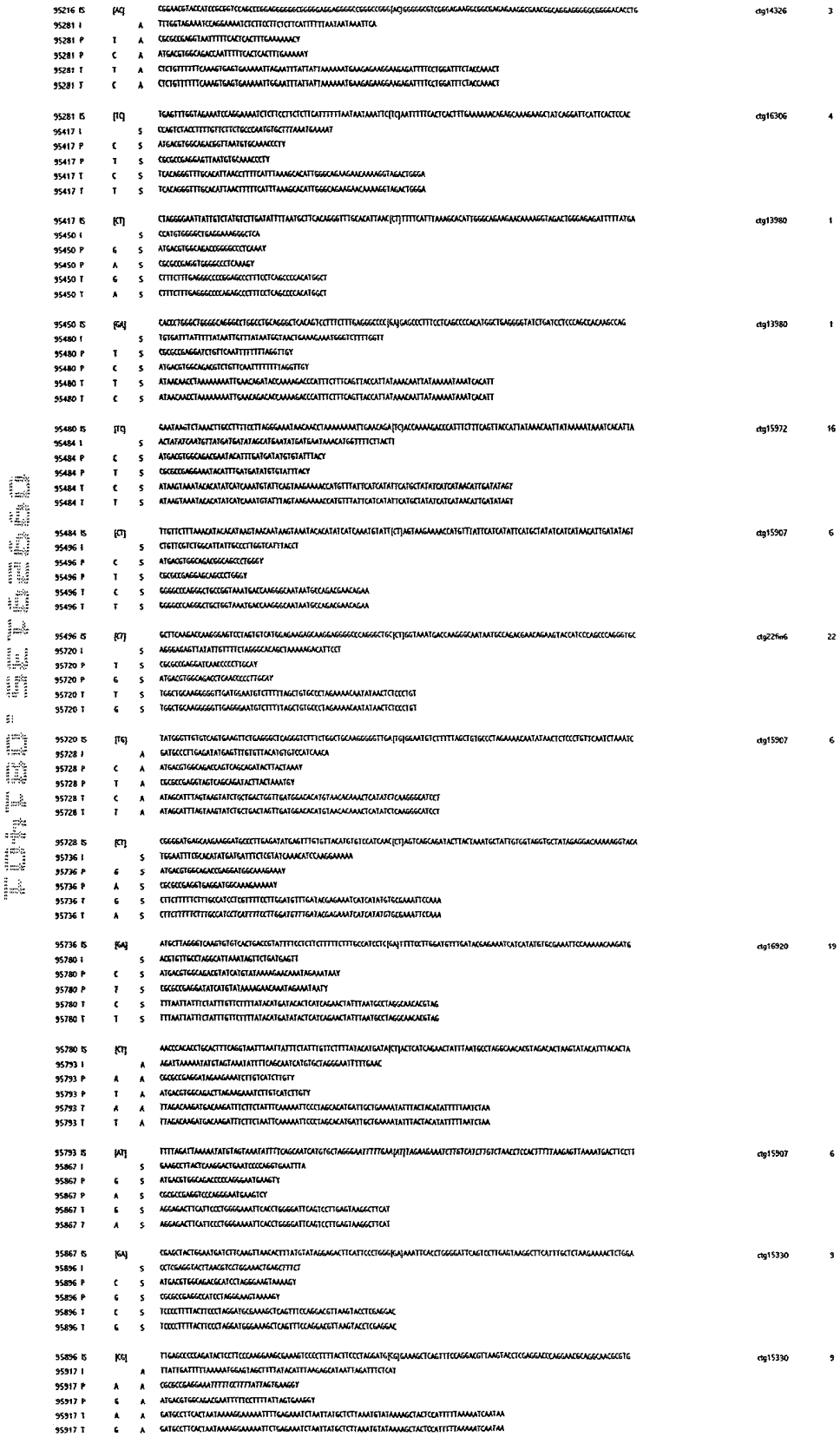
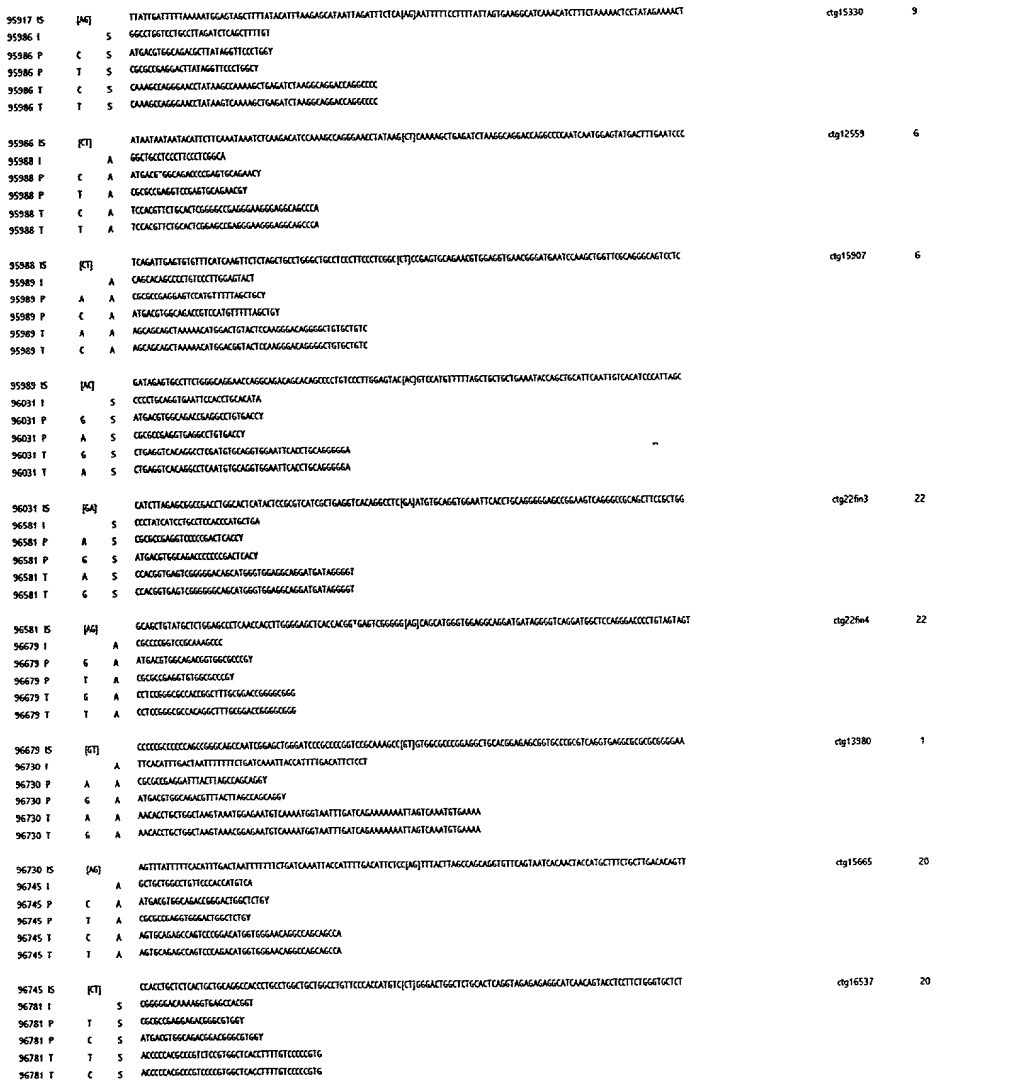


FIGURE 129G



Sequence Listing Page 10 of 10

FIGURE 129G

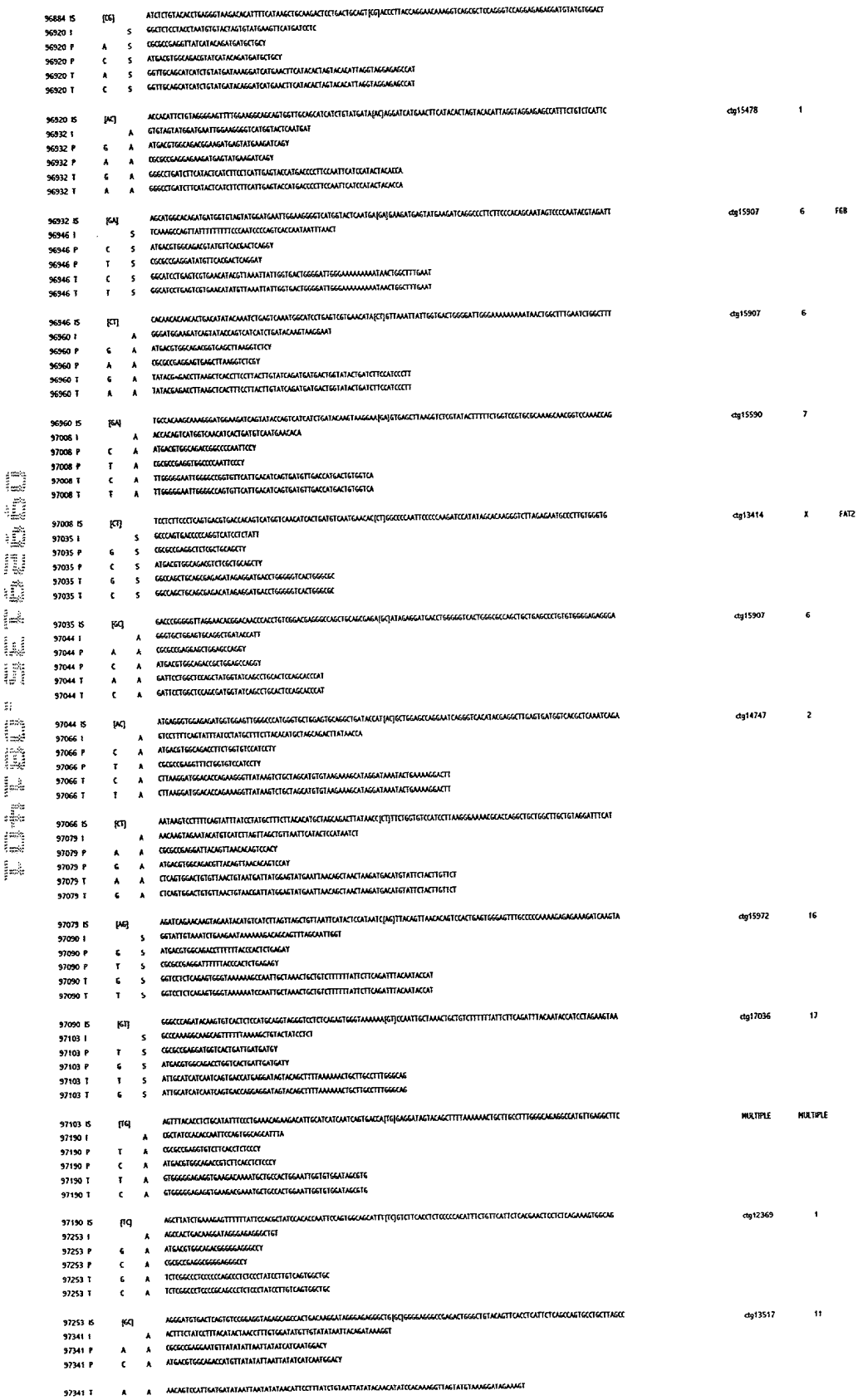

96884 IS [CG] ATCTCTGTACACCTGAGGGTAAGACACATTTTCATAAGCTGCAAGACTCCTGACTGCAGT[CG]ACCCTTACCAGGAACAAAGGTCAGCGCTCCAGGGTCCAGGAGAGAGAGGATGTATGTGGACT
96920 I S GGCTCTCCTACCTAATGTGTACTAGTGTATGAAGTTCATGATCCTC
96920 P A S CGCGCCGAGGTTATCATACAGATGATGCTGCY
96920 P C S ATGACGTGGCAGACGTATCATACAGATGATGCTGCY
96920 T A S GGTTGCAGCATCATCTGTATGATACAGGATCATGAACTTCATACACTAGTACACATTAGGTAGGAGAGCCAT
96920 T C S GGTTGCAGCATCATCTGTATGATACAGGATCATGAACTTCATACACTAGTACACATTAGGTAGGAGAGCCAT
96920 IS [AC] ACCACATTCTGTAGGGGCAGTTTTGGAAGGCAGCAGTGGTTGCAGCATCATCTGTATGATA[AC]AGGATCATGAACTTCATACACTAGTACACATTAGGTAGGAGAGCCATTTCTGTCTCATTC ctg15478 1
96932 I A GTGTAGTATGGATGAATTGGAAGGGGTCATGGTACTCAATGAT
96932 P G A ATGACGTGGCAGACGGAAGATGAGTATGAAGATCAGY
96932 P A A CGCGCCGAGGAGAAGATGAGTATGAAGATCAGY
96932 T G A GGGCCTGATCTTCATACTCATCTTCCTCATTGAGTACCATGACCCCTTCCAATTCATCCATACTACACCA
96932 T A A GGGCCTGATCTTCATACTCATCTTCTTCATTGAGTACCATGACCCCTTCCAATTCATCCATACTACACCA
96932 IS [GA] AGCATGGCACAGATGATGGTGTAGTATGGATGAATTGGAAGGGGTCATGGTACTCAATGA[GA]GAAGATGAGTATGAAGATCAGGCCCTTCTTCCCACAGCAATAGTCCCCAATACGTAGATT ctg15907 6 FEB
96946 I S TCAAAGCCAGTTATTTTTTTTCCCAATCCCCAGTCACCAATAATTTAACT
96946 P C S ATGACGTGGCAGACGTATGTTCACGACTCAGGY
96946 P T S CGCGCCGAGGATATGTTCACGACTCAGGAT
96946 T C S GGCATCCTGAGTCGTGAACATACGTTAAATTATTGGTGACTGGGGATTGGGAAAAAAAAATAACTGGCTTTGAAT
96946 T T S GGCATCCTGAGTCGTGAACATATGTTAAATTATTGGTGACTGGGGATTGGGAAAAAAAAATAACTGGCTTTGAAT
96960 IS [CT] CACAACACAACACTGACATATACAAATCTGAGTCAAATGGCATCCTGAGTCGTGAACATA[CT]GTTAAATTATTGGTGACTGGGGATTGGGAAAAAAAAATAACTGGCTTTGAATCTGGCTTT ctg15907 6
96960 I A GGGATGGAAGATCAGTATACCAGTCATCATCTGATACAAATAAGGAAT
96960 P G A ATGACGTGGCAGACCGGCCCCAATTCCY
96960 P A A CGCGCCGAGGAGTGAGCTTAAGGTCTCY
96960 T G A TATACGAGACCTTAAGCTCACCTTCCTTACTTGTATCAGATGATGACTGGTATACTGATCTTCCATCCCTT
96960 T A A TATACGAGACCTTAAGCTCACTTTCCTTACTTGTATCAGATGATGACTGGTATACTGATCTTCCATCCCTT
96960 IS [GA] TGCTACAACAAGAAAGGGATGGAAGATCAGTATACCAGTCATCATCTGATACAAGTAAGGAA[GA]GTGAGCTTAAGGTCTCGTATACTTTTTCTGGTCCGTGCGCAAAGCAACGGTCCAAACCAG ctg15590 7
97006 I A ACCACAGTCATGGTCAACATCACTGATGTCAATGAACACA
97008 P C A ATGACGTGGCAGACCGGCCCCAATTCCY
97008 P T A CGCGCCGAGGTGGCCCCAATTCCCY
97008 T C A TTGGGGGAATTGGGGCCGGTGTTCATTGACATCAGTGATGTTGACCATGACTGTGGTCA
97008 T T A TTGGGGGAATTGGGGCCAGTGTTCATTGACATCAGTGATGTTGACCATGACTGTGGTCA
97008 IS [CT] TCCTCTTCCCTCAGTGACGTGACCACAGTCATGGTCAACATCACTGATGTCAATGAACAC[CT]GGCCCCAATTCCCCCAAGATCCATATAGCACAAGGGTCTTAGAGAATGCCCTTGTGGGTG ctg13414 X FAT2
97035 I S GCCCAGTGACCCCCAGGTCATCCTCTATT
97035 P G S CGCGCCGAGGCTCTCGCTGCAGCTY
97035 P C S ATGACGTGGCAGACGTCTCGCTGCAGCTY
97035 T G S GGCCAGCTGCAGCGAGACATAGAGGATGACCTGGGGGTCACTGGGCGC
97035 T C S GGCCAGCTGCAGCGAGACATAGAGGATGACCTGGGGGTCACTGGGCGC
97035 IS [GC] GACCCGGGGGTTAGGAACACGGACAACCCACCTGTGGACGAGGGCCAGCTGCAGCGAG[GC]ATAGAGGATGACCTGGGGGTCACTGGCGCCCAGCTGCTGAGCCCTGTGTGGGGAGAGGGA ctg15907 6
97044 I A GGGTGCTGGAGTGCAGGCTGATACCATT
97044 P A A CGCGCCGAGAAGCTGAAGCCAGGY
97044 P C A ATGACGTGGCAGACGCTGGAGCCAGGY
97044 T A A GATTCCTGGCTCCAGCTATGGTATCAGCCTGCACTCCAGCACCCAT
97044 T C A GATTCCTGGCTCCAGCGATGGTATCAGCCTGCACTCCAGCACCCAT
97044 IS [AC] ATGAGGGTGGAGAGATGGTGGAGTTGGGCCCATGGGTGCTGGAGTGCAGGCTGATACCAT[AC]GCTGGAGCCAGGAATCAGGGTCACATACGAGGCTTGAGTGATGGTCACGCTCAAATCAGA ctg14747 2
97066 I A GTCCTTTCAGTATTTATCCTATGCTTTCTTACACATGCTAGCAGACTTATAACCA
97066 P C A ATGACGTGGCAGACCTTCTGGTGTCCATCCTY
97066 P T A CGCGCCGAGGTTTCTGGTGTCCATCCTY
97066 T C A CTTAAGGATGGACACCAGAAGGTTATAAGTCTGCTAGCATGTGTAAGAAAGCATAGGATAAATACTGAAAAGGACTT
97066 T T A CTTAAGGATGGACACCAGAAAGGTTATAAGTCTGCTAGCATGTGTAAGAAAGCATAGGATAAATACTGAAAAGGACTT
97066 IS [CT] AATAAGTCCTTTTCAGTATTTATCCTATGCTTTCTTACACATGCTAGCAGACTTATAACC[CT]TTCTGGTGTCCATCCTTAAGGAAAAGCGACTAGGCTGCTGGCTTGCTGTAGGATTTCAT
97079 I A AACAAGTAGAATACATGTCATCTTAGTTAGCTGTTAATTCATACTCCATAATCT
97079 P A A CGCGCCGAGGATTACAGTTAACAGACTCCACY
97079 P G A ATGACGTGGCAGACGTTACAGTTAACACAGTCCAY
97079 T A A CTCAGTGGACTGTGTTAACTGTAATGATTATGGAGTATGAATTAACAGCTAACTAAGATGACATGTATTCTACTTGTTCT
97079 T G A CTCAGTGGACTGTGTTAACTGTAATGATTATGGAGTATGAATTAACAGCTAACTAAGATGACATGTATTCTACTTGTTCT
97079 IS [AG] AGATCAGAACAAGTAGAATACATGTCATCTTAGTTAGCTGTTAATTCATACTCCATAATC[AG]TTACAGTTAACACAGTCCACTGAGTGGGAGTTTGCCCCCAAAAGAGAGAAAGATCAAGTA ctg15972 16
97090 I S GGTATTGTAAATCTGAAGAATAAAAAAGACAGCAGTTTAGCAATTGGT
97090 P G S ATGACGTGGCAGACCTTTTTTACCCACTCTGAGAY
97090 P T S CGCGCCGAGGATTTTTTACCCACTCTGAGAGY
97090 T G S GGTCCTCTCAGAGTGGGTAAAAAAGCCAATTGCTAAACTGCTGTCTTTTTTATTCTTCAGATTTACAATACCAT
97090 T T S GGTCCTCTCAGAGTGGGTAAAAAATCCAATTGCTAAACTGCTGTCTTTTTTATTCTTCAGATTTACAATACCAT
97090 IS [GT] GGGCCCAGATACAAGTGTCACTCTCCATGCAGGTACGGCTCCTCTCAGAGTGGGTAAAAAA[GT]CCAATTGCTAAACTGCTGTCTTTTTTATTCTTCAGATTTACAATACCATCCTAGAAGTAA ctg17036 17
97103 I S GCCCAAAGGCAAGCAGTTTTTTAAAAGCTGTACTATCCTCT
97103 P T S CGCGCCGAGGATGGTCACTGATTGATGATGY
97103 P G S ATGACGTGGCAGACCTGGTCACTGATTGATGATY
97103 T T S ATTGCATCATCAATCAGTGACCATGAGGATAGTACAGCTTTTAAAAAACTGCTTGCCTTTGGGCAG
97103 T G S ATTGCATCATCAATCAGTGACCAGGAGGATAGTACAGCTTTTAAAAAACTGCTTGCCTTTGGGCAG
97103 IS [TC] AGTTTACACCTCTGCATATTTCCCTGAAACAGAAGACATTGCATCATCAATCAGTGACCA[TG]GAGGATAGTACAGCTTTTAAAAAACTGCTTGCCTTTGGGCAGAGGCCATGTTGAGGCTTC MULTIPLE MULTIPLE
97190 I A CGCTATCCCACACCAATTCCAGTGGCAGCATTTA
97190 P T A CCCGCCGAGGTGTCTTCACCTCTCCCY
97190 P C A ATGACGTGGCAGACCGTCTTCACCTCTCCCY
97190 T T A GTGGGGGAGAGGTGAAGACAAAATGCTGCCACTGGAATTGGTGTGGATAGCGTG
97190 T C A GTGGGGGAGAGGTGAAGACGAAATGCTGCCACTGGAATTGGTGTGGATAGCGTG
97190 IS [TC] AGCTTATCTGAAAGAGTTTTTTATTCCACGCTATCCACACCAATTCCAGTGGCAGCATTT[TC]GTCTTCACCTCTCCCCCACATTTCTGTTCATTCTCACGAACTCCTCTCAGAAAGTGGCAG ctg12369 1
97253 I A AGCCACTGACAAGGATAGGGAGAGGGCTGT
97253 P G A ATGACGTGGCAGACGGGGGAGGGCCY
97253 P C A CGCGCCGAGGCGGGGAGGGCCY
97253 T G A TCTCGGCCCTCCCCCCAGCCCTCTCCCTATCCTTGTCAGTGGCTGC
97253 T C A TCTCGGCCCTCCCCGCAGCCCTCTCCCTATCCTTGTCAGTGGCTGC
97253 IS [GC] AGGGATGTGACTCAGTGTCCGGAGGTAGAGCAGCCACTGACAAGGATAGGGAGAGGGCTG[GC]GGGGAGGGCCAGACTGGGCTGTACAGTTCACCTCATTCTCAGCCAGTGCCTGCTTAGCC ctg13517 11
97341 I A ACTTTCTATCCTTTACATACTAACCTTTGTGGATATGTTGTATATAATTACAGATAAAGGT
97341 P A A CGCGCCGAGGAATGTTATATATTAATTATATCATCAATGGACY
97341 P C A ATGACGTGGGAGACCATGTTATATATTAATTATATCATCAATGGACY
97341 T A A AACAGTCCATTGATGATATAATTAATATATAACATTCCTTATCTGTAATTATATACAACATATCCACAAAGGTTAGTATGTAAAGGATAGAAAGT

FIGURE 129G

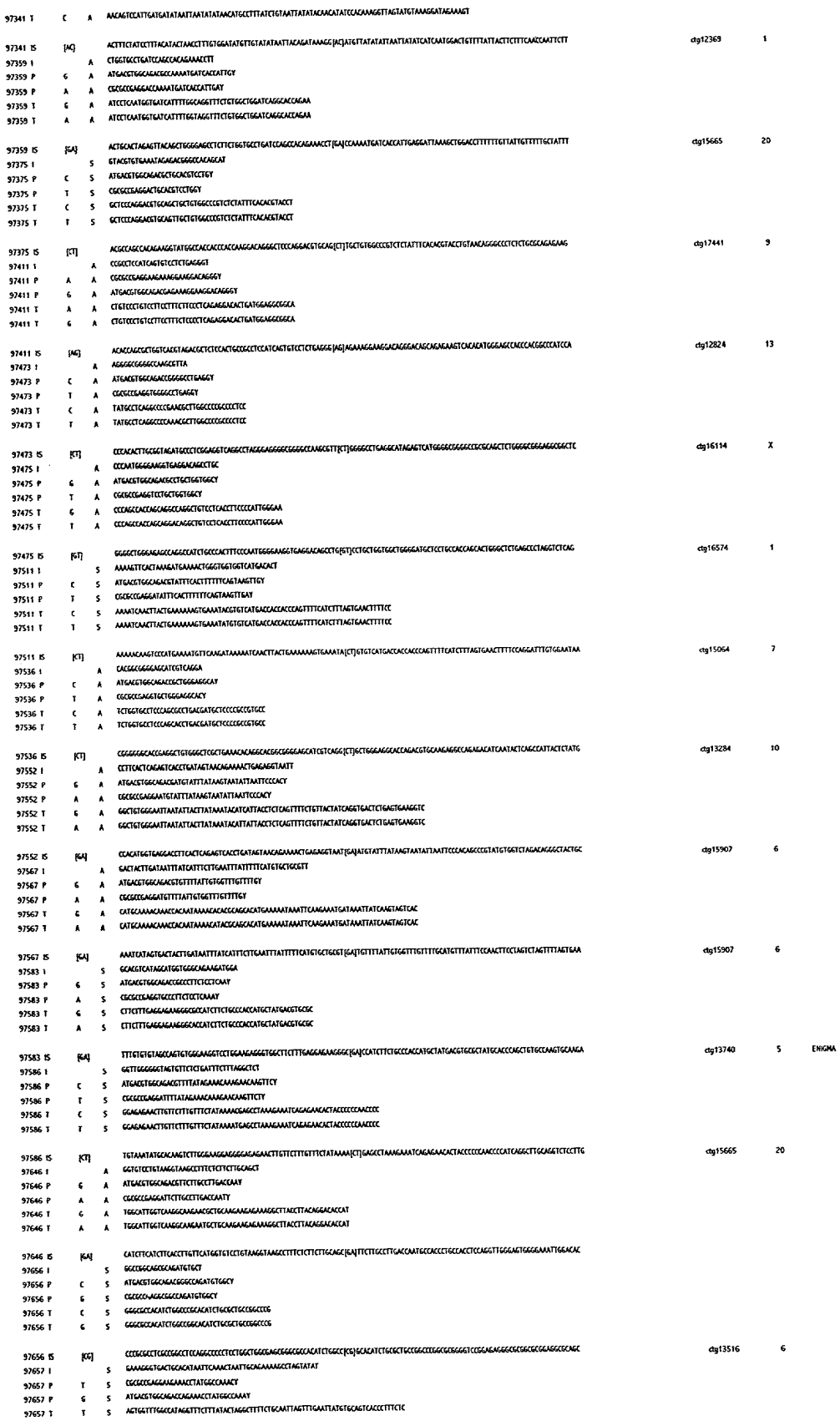

97341 T C A AACAGTCCATTGATGATATAATTAATATATAACATGCCTTTATCTGTAATTATATACAACATATCCACAAAGGTTAGTATGTAAGGATAGAAAGT
97341 IS [AC] ACTTTCTATCCTTTACATACTAACCTTTGTGGATATGTTGTATATAATTACAGATAAAGG[AC]ATGTTATATATTAATTATATCATCAATGGACTGTTTTATTACTTCTTTCAACCAATTCTT ctg12369 1
97359 I A CTGGTGCCTGATCCAGCCACAGAAACCTT
97359 P G A ATGACGTGGCAGACGCCAAAATGATCACCATTGY
97359 P A A CGCGCCCAGGACCAAATGATCACCATTGAY
97359 T G A ATCCTCAATGGTGATCATTTTGGCAGGTTTCTGTGGCTGGATCAGGCACCAGAA
97359 T A A ATCCTCAATGGTGATCATTTTGGTAGGTTTCTGTGGCTGGATCAGGCACCAGAA
97359 IS [GA] ACTGCACTAGAGTTACAGCTGGGGAGGCCTCTTCTGGTGCCTGATCCAGCCACAGAAACCT[GA]CCAAAATGATCACCATTGAGGATTAAAGCTGGACCTTTTTTGTTATTGTTTTTGCTATTT ctg15665 20
97375 I S GTACGTGTGAAATACAGACGGGCCACAGCAT
97375 P C S ATGACGTGGCAGACGCTGCACGTCCTGY
97375 P T S CGCGCCSAGGACTGCACGTCCTGGY
97375 T C S GCTCCCAGGACGTGCAGCTGCTGTGGCCCGTCTCTATTTCACACGTACCT
97375 T T S GCTCCCAGGACGTGCAGTTGCTGTGGCCCGTCTCTATTTCACACGTACCT
97375 IS [CT] ACGCCAGCCACAGAAGGTATGGCCACCACCCACCAAGGACAGGGCTCCCAGGACGTGCAG[CT]TGCTGTGGCCCGTCTCTATTTCACACGTACCTGTAACAGGGCCCTCTCTGCCGCAGAGAAG ctg17441 9
97411 I A CCGCCTCCCATCAGTGTCCTCTGAGGGT
97411 P A A CGCGCCSAGGAAGAAAGGAAGGACACAGGGY
97411 P G A ATGACGTGGCAGACGAGAAAGGAAGGACAGGGY
97411 T A A CTGTCCCTGTCCTTCCTTTCTTCCCTCAGAGGACACTGATGGAGGCGGCA
97411 T G A CTGTCCCTGTCCTTCCTTTCTCCCCTCAGAGGACACTGATGGAGGCGGCA
97411 IS [AG] ACACCAGCGCTGGTCACGTAGACGCTCTCCACTGCCGCCTCCATCAGTGTCCTCTGAGGG[AG]AGAAGGAAGGACAGGGACAGCAGAGAAGTCACACATGGGAGCCACCCACGGCCCATCCA ctg12824 13
97473 I A AGGGGCGGGGCCAAGCGTTA
97473 P C A ATGACGTGGCAGACCGGGGCCTGAGGY
97473 P T A CGCGCCSAGGTGGGGCCTGAGGY
97473 T C A TATGCCTCAGGCCCCSAAGCTTGGCCCCCGCCCCTCC
97473 T T A TATGCCTCAGGCCCCAAAGCTTGGCCCCCGCCCCTCC
97473 IS [CT] CCCACACTTGCGGTAGATGCCCTCGGAGGTCAGGCCTAGGGAGGGGCGGGGCCAAGCGTT[CT]GGGGCCTGAGGACATAGAGTCATGGGGGCGGGGCCGCGCACTCTGGGGCGGGAGGCGGCTC ctg16114 X
97475 I A CCCAATGGGGAAGGTGAGGAGCAGCCTGC
97475 P G A ATGACGTGGCAGACGCCTGCTGGTGGCY
97475 P T A CGCGCCGAGGTCCTGCTGGTGGCY
97475 T G A CCCAGCCACCAGCAGGCCAGGCTGTCCTCACCTTCCCCATTGGGAA
97475 T T A CCCAGCCACCAGCAGGCAGGCTGTCCTCACCTTCCCCATTGGGAA
97475 IS [GT] GGGGCTGGGAGAGCCAGGCCATCTGCCCACTTTCCCAATGGGGAAGGTGAGGACAGCCTG[GT]CCTGCTGGTGGCTGGGGATGCTCCTGCCACCAGCACTGGGCTCTGAGCCCTAGGTCTCAG ctg16574 1
97511 I S AAAAGTTCACTAAAGATGAAAACTGGGTGGTGGTCATGACACT
97511 P C S ATGACGTGGCAGACGTATTCACTTTTTCAGTAAGTTGY
97511 P T S CGCGCCGAGGATATTTCACTTTTTTCAGTAAGTTGAY
97511 T C S AAAATCAACTTACTGAAAAAGTGAAATACGTGTCATGACCACCACCCAGTTTTCATCTTTAGTGAACTTTTCC
97511 T T S AAAATCAACTTACTGAAAAAGTGAAATATGTGTCATGACCACCACCCAGTTTTCATCTTTAGTGAACTTTTCC
97511 IS [CT] AAAAACAAGTCCCATGAAAATGTTCAAGATAAAAATCAACTTACTGAAAAAAGTGAAATA[CT]GTGTCATGACCACCACCCAGTTTTCATCTTTAGTGAACTTTTCCAGGATTTGTGGAATAA ctg15064 7
97536 I A CACGGCGGGGAGCATCGTCAGGA
97536 P C A ATGACGTGGCAGACCGCTGGGAGGCAY
97536 P T A CGCGCCSAGGTGCTGGGAGGCCACY
97536 T C A TCTGGTGCCTCCCAGCGCCTGACGATGCTCCCCCGCCGTGCC
97536 T T A TCTGGTGCCTCCCAGCACCTGACGATGCTCCCCCGCCGTGCC
97536 IS [CT] CGGGGGGCACCGAGGCTGTGGGCTCGCTGAAACNCAGGCACGGCGGGGAGCATCGTCAGG[CT]GCTGGGAGGCACCAGACGTGCAAGAGGCCAGAGACATCAATACTCAGCCATTACTCTATG ctg13284 10
97552 I A CCTTCACTCAGAGTCACCTGATAGTAACAGAAAACTGAGAGGTAATT
97552 P G A ATGACGTGGCAGACGATGTATTTATAAGTAATATTAATTCCCACY
97552 P A A CGCGCCGAGGAATGTATTTATAAGTAATATTAATTCCCACY
97552 T G A GGCTGTGGGAATTAATATTACTTATAAATACATCATTACCTCTCAGTTTTCTGTTACTATCAGGTGACTCTGAGTGAAGGTC
97552 T A A GGCTGTGGGAATTAATATTACTTATAAATACATTATTACCTCTCAGTTTTCTGTTACTATCAGGTGACTCTGAGTGAAGGTC
97552 IS [GA] CCACATGGTGAGGACCTTCACTCAGAGTCACCTGATAGTAACAGAAAACTGAGAGGTAAT[GA]ATGTATTTATAAGTAATATTAATTCCCACAGCCCGTATGTGGTCTAGACAGGGCTACTGC ctg15907 6
97567 I A GACTACTTGATAATTTATCATTTCTTGAATTTATTTTTCATGTGCTGCGTT
97567 P G A ATGACGTGGCAGACGTGTTTTATTGTGGTTTGTTTTGY
97567 P A A CGCGCCGAGGATGTTTTAATGTGGTTTGTTTTGY
97567 T G A CATGCAAAACAAACCACAATAAAACACACGCAGCACATGAAAAATAAATTCAAGAAATGATAAATTATCAAGTAGTCAC
97567 T A A CATGCAAAACAAACCACAATAAAACATACGCAGCACATGAAAAATAAATTCAAGAAATGATAAATTATCAAGTAGTCAC
97567 IS [GA] AAATCATAGTGACTACTTGATAATTTATCATTTCTTGAATTTATTTTTCATGTGCTGCGT[GA]TGTTTTATTGTGGTTTGTTTTGCATGTTTATTTCCAACTTCCTAGTCTAGTTTTAGTGAA ctg15907 6
97583 I S GCACGTCATAGCATGGTGGGCAGAAGATGGA
97583 P G S ATGACGTGGCAGACGCGCCCTTCTCCTCAAY
97583 P A S CGCGCCSAGGTGCCCTTCTCCTCAAY
97583 T G S CTTCTTTGAGCAGAAGGGCGCCATCTTCTGCCCACCATGCTATGACGTGCGC
97583 T A S CTTCTTTGAGCAGAAGGGCAACCATCTTCTGCCCACCATGCTATGACGTGCGC
97583 IS [GA] TTTGTGTGTAGCCAGTGTGGGAAGGTCCTGGAAGAGGGTGGCTTCTTTGAGGAGAAGGGC[GA]CCATCTTCTGCCCACCATGCTATGACGTGCGCTATGCACCCAGCTGTGCCAAGTGCAAGA ctg13740 5 ENIGMA
97586 I S GGTTGGGGGGTAGTGTCTCTGAATTCTTTAGGCTCT
97586 P C S ATGACGTGGCAGACGTTTTATAGAAACAAGAACAAGTTCY
97586 P T S CGCGCCGAGGATTTTATAGAAACAAAGAACAAGTTCTY
97586 T C S GGAGAGAACTTGTTCTTTGTTTCTATAAAACGAGCCTAAAGAAATCAGAGAACACTACCCCCCAACCCC
97586 T T S GGAGAGAACTTGTTCTTTGTTTCTATAAAATGAGCCTAAAGAAATCAGAGAACACTACCCCCCAACCCC
97586 IS [CT] TGTAAATATGCACAAGTCTTGGGAAGGAGGGGAGAGAACTTGTTCTTTGTTTCTATAAAA[CT]GAGCCTAAAGAAATCAGAGAACACTACCCCCCAACCCCATCAGGCTTGCAGGTCTCCTTG ctg15665 20
97646 I A GGTGTCCTGTAAGGTAAGCCTTTCTCTCTTCTTGCAGCT
97646 P G A ATGACGTGGCAGACGTTCTTGCCTTGACCAAY
97646 P A A CGCGCCSAGGATTCTTGCCTTGACCAATY
97646 T G A TGGCATTGGTCAAGGCAAGAACGCTGCAAGAAGAGAAAGGCTTACCTTACAGGACACCAT
97646 T A A TGGCATTGGTCAAGGCAAGAATGCTGCAAGAAGAGAAAGGCTTACCTTACAGGACACCAT
97646 IS [GA] CATCTTCATCTTCACCTTGTTCATGGTGTCCTGTAAGGTAAGCCTTTCTCTCTTCTGCAGC[GA]TTCTTGCCTTGACCAATGCCACCCTGCCACCTCCAGGTTGGGAGTGGGGAAATTGGACAC
97656 I S GGCCGGCAGCGCAGATGTGCT
97656 P C S ATGACGTGGCAGACGGGCCAGATGTGGCY
97656 P G S CGCGCCSAGGCGGCCAGATGTGGCY
97656 T C S GGGGCGCACATCTGGCCCGCACATCTGCGCTGCCGCCCG
97656 T G S GGGGCGCACATCTGGCCCGGCACATCTGCGCTGCCGGCCCG
97656 IS [CG] CCCGCGCCTCGCCGGCCTCCAGGCCCCCTCCTGGCTGGGCAGCGGGCGCCACATCTGCCC[CG]GCACATCTGCGCTGCCGGCCCGGCGCGGGGGTCCGGAGAGGGCGCGGCGCGGAGGCGCAGC ctg13516 6
97657 I S GAAAGGGTGACTGCACATAATTCAAACTAATTGCACAAAAGCCTAGTATAT
97657 P T S CGCGCCSAGGAACAAACCTATGGCCAAACY
97657 P G S ATGACGTGGCAGACCAGAAACCTATGGCCAAAY
97657 T T S AGTGGTTTGGCCATAGGTTTCTTTATACTAGGCTTTCTGCAATTAGTTTGAATTATGTGCAGTCACCCTTTCTC

FIGURE 129G

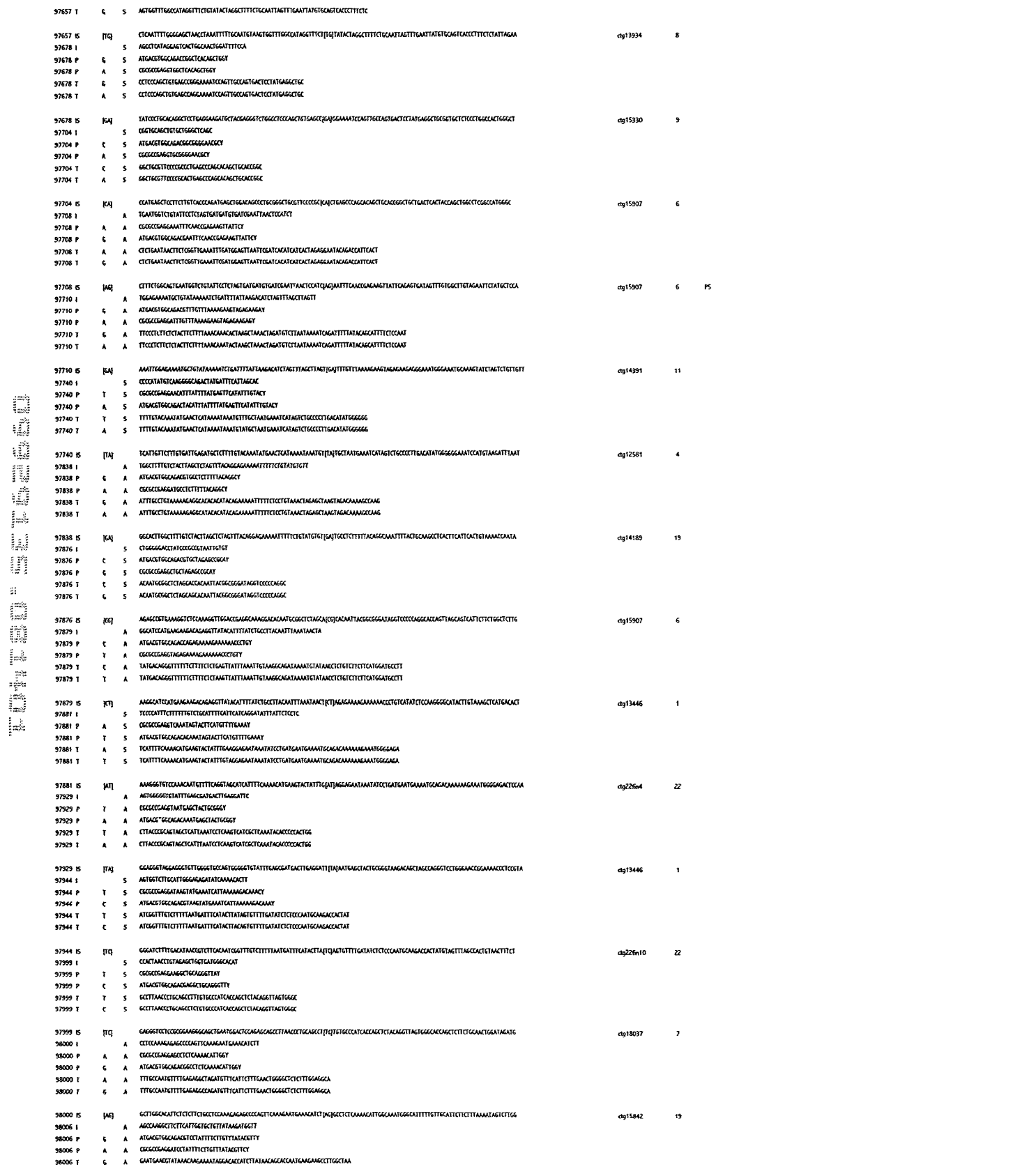

97657 T G S AGTGGTTTGGCCATAGGTTCTGTATACTAGGCTTTTCTGCAATTAGTTTGAATTATGTGCAGTCACCCTTCTC
97657 IS [TG] CTCAATTTTGGGGAGCTAACCTAAATTTTTGCAATGTAAGTGGTTTGGCCATAGGTTTCT[TG]TATACTAGGCTTTTCTGCAATTAGTTTGAATTATGTGCAGTCACCCTTTCTCTATTAGAA ctg13934 8
97678 I S AGCCTCATAGGAGTCACTGGCAACTGGATTTTCCA
97678 P G S ATGACGTGGCAGACCGGCTCACAGCTGGT
97678 P A S CGCGCCGAGGTGGCTCACAGCTGGY
97678 T G S CCTCCCAGCTGTGAGCCGGGAAAATCCAGTTGCCAGTGACTCCTATGAGGCTGC
97678 T A S CCTCCCAGCTGTGAGCAGCAAAATCCAGTTGCCAGTGACTCCTATGAGGCTGC
97678 IS [GA] TATCCCTGCACAGGCTCCTGAGGAAGATGCTACGAGGGTCTGGCCTCCCAGCTGTGAGCC[GA]CGAAAATCCAGTTGCCAGTGACTCCTATGAGGCTGCGGTGCTCTCCCTGGCCACTGGGCT ctg15330 9
97704 I S CGGTGCAGCTGTGCTGGGCTCAGC
97704 P C S ATGACGTGGCAGACGGCGGGCAACGCY
97704 P A S CGGCCCGAGGTGCGGGGAACGCY
97704 T C S GGCTGCGTTCCCCGCCCTGAGCCCAGCACAGCTGCACCCGC
97704 T A S GGCTGCGTTCCCCGCACTGAGCCCAGCACAGCTGCACCCGC
97704 IS [CA] CCATGAGCTCCTTCTTGTCACCCAGATGAGCTGGACAGCCCTGCGGGCTGCGTTCCCCGC[CA]CTGAGCCCAGCACAGCTGCACCGGCTGCTGACTCACTACCAGCTGGCCTCGGCCATGGGC ctg15907 6
97708 I A TGAATGGTCTGTATTCCTCTAGTGATGATGTGATCGAATTAACTCCATCT
97708 P A A CGCGCCGAGGAAATTTCAACCGAGAAGTTATTCY
97708 P G A ATGACGTGGCAGACGAATTTCAACCGAGAAGTTATTCY
97708 T A A CTCTGAATAACTTCTCGGTTGAAATTTGATGGAGTTAATTCGATCACATCATCACTAGAGGAATACAGACCATTCACT
97708 T G A CTCTGAATAACTTCTCGGTTGAAATTCGATGGAGTTAATTCGATCACATCATCACTAGAGGAATACAGACCATTCACT
97708 IS [AG] CTTTCTGGCAGTGAATGGTCTGTATTCCTCTAGTGATGATGTGATCGAAT'AACTCCATCAG[AG]AATTTCAACCGAGAAGTTATTCAGAGTGATAGTTTGTGGCTTGTAGAATTCTATGCTCCA ctg15907 6 PS
97710 I A TGGAGAAAATGCTGTATAAAAATCTGATTTTATTAAGACATCTAGTTTAGCT
97710 P G A ATGACGTGGCAGACGTTTGTTTAAAAGAAGTAGAGAAGAY
97710 P A A CGGCCCGAGGATTTGTTTAAAAGAAGTAGAGAAGAGY
97710 T G A TTCCCTCTTCTCTACTTCTTTTAAACAAACACTAAGCTAAACTAGATGTCTTAATAAAATCAGATTTTTATACAGCATTTCTCCCAAT
97710 T A A TTCCCTCTTCTCTACTTCTTTTAAACAAATACTAAGCTAAACTAGATGTCTTAATAAAATCAGATTTTTATACAGCATTTCTCCCAAT
97710 IS [GA] AAATTGGAGAAAATGCTGTATAAAAATCTGATTTTATTAAGACATCTAGTTTAGCTTAGT[GA]TTTGTTTAAAAGAAGTAGAGAAGAGGGAAATGGGAAATGCAAAGTATCTAGTCTGTTGTT ctg14391 11
97740 I S CCCCATATGTCAAGGGGCAGACTATGATTTCATTAGCAC
97740 P T S CGCGCCGAGGAACATTTATTTTATGAGTTCATATTTGTACY
97740 P A S ATGACGTGGCAGACTACATTTATTTTATGAGTTCATATTTGTACY
97740 T T S TTTTGTACAAATATGAACTCATAAAATAAATGTTTGCTAATGAAATCATAGTCTGCCCCTTGACATATGGGGGG
97740 T A S TTTTGTACAAATATGAACTCATAAAATAAATGTATGCTAATGAAATCATAGTCTGCCCCTTGACATATGGGGGG
97740 IS [TA] TCATTGTTCTTTGTGATTGAGATGCTCTTTTGTACAAATATGAACTCATAAAATAAATGT[TA]TGCTAATGAAATCATAGTCTGCCCCTTGACATATGGGGGGAAATCCATGTAACATTTAAT ctg12581 4
97838 I A TGGCTTTTGTCTACTTAGCTCTAGTTTACAGGAGAAAAATTTTTCTGTATGTGTT
97838 P G A ATGACGTGGCAGACGTGCCTCTTTTTACAGGCY
97838 P A A CGCGCCGAGGATGCCTCTTTTTACAGGCY
97838 T G A ATTTGCCTGTAAAAGAGGCACACACATACAGAAAAATTTTTCTCCTGTAAACTAGAGCTAAGTAGACAAAGCCAAG
97838 T A A ATTTGCCTGTAAAAGAGGCATACACATACAGAAAAATTTTTCTCCTGTAAACTAGAGCTAAGTAGACAAAGCCAAG
97838 IS [GA] GGCACTTGGCTTTTGTCTACTTAGCTCTAGTTTACAGGAGAAAAATTTTTCTGTATGTGT[GA]TGCCTCTTTTTACAGGCAAATTTTACTGCAAGCCTCACTTCATTCACTGTAAAACCAATA ctg14189 19
97876 I S CTGGGGGACCTATCCCCCGTAATTGTGT
97876 P C S ATGACGTGGCAGACGTGCTAGAGCCGCAT
97876 P G S CGCGCCGAGGCTGCTAGAGCCGCAY
97876 T C S ACAATGCGGCTCTAGCACCACAATTACGGCGGGATAGGTCCCCCAGGC
97876 T G S ACAATGCGACTCTAGCAGCACAATTACGGCGGGATAGGTCCCCCAGGC
97876 IS [CG] AGAGCCGTGAAAGGTCTCCAAAGGTTGGACCGAGGCAAAGGACACAATGCGGCTCTAGCA[CG]CACAATTACGGCGGGATAGGTCCCCCAGGCACCAGTTAGCAGTCATTCTTCTGGCTCTTG ctg15907 6
97879 I A GGCATCCATGAAGAAGACAGAGTTATACATTTTATCTGCCTTACAATTTAAATAACTA
97879 P C A ATGACGTGGCAGACAGAGAAAAGAAAAAACCCTGY
97879 P Y A CGCGCCGAGGTAGAGAAAAGAAAAAACCCTGTY
97879 T C A TATGACAGGGTTTTTTCTTTTCTCTGAGTTATTTAAATTGTAAGGCAGATAAAATGTATAACCTCTGTCTTCTTCATGGATGCCTT
97879 T T A TATGACAGGGTTTTTTCTTTTCTCTAAGTTATTTAAATTGTAAGGCAGATAAAATGTATAACCTCTGTCTTCTTCATGGATGCCTT
97879 IS [CT] AAGGCATCCATGAAGAAGACAGAGGTTATACATTTTATCTGCCTTACAATTTAAATAACT[CT]AGAGAAAAGAAAAAACCCTGTCATATCTCCAAGGGGCATACTTGTAAAGTCATGACACT ctg13446 1
97881 I S TCCCCATTTCTTTTTTGTCTGCATTTTCATTCATCAGGATATTTATTCTCCTC
97881 P A S CGCGCCGAGGTCAAATAGTACTTCATGTTTTGAAAY
97881 P T S ATGACGTGGCAGACACAAATAGTACTTCATGTTTTGAAAY
97881 T A S TCATTTTCAAAACATGAAGTACTATTTGAAGGAGAATAAATATCCTGATGAATGAAAATGCAGACAAAAAAGAAATGGGGAGA
97881 T T S TCATTTTCAAAACATGAAGTACTATTTGTAGGAGAATAAATATCCTGATGAATGAAAATGCAGACAAAAAAGAAATGGGGAGA
97881 IS [AT] AAAGGGTGTCCAAACAATGTTTTCAGGTAGCATCATTTTCAAAACATGAAGTACTATTTG[AT]AGGAGAATAAATATCCTGATGAATGAAAATGCAGACAAAAAAGAAATGGGGAGACTCCAA ctg22fm4 22
97929 I A AGTGGGGGTGTATTTGAGCGATGACTTGAGGATTC
97929 P T A CGCGCCGAGGTAATGAGCTACTGCGGGY
97929 P A A ATGACG"GGCAGACAAATGAGCTACTGCGGY
97929 T T A CTTACCCGCAGTAGCTCATTAAATCCTCAAGTCATCGCTCAAATACACCCCCACTGG
97929 T A A CTTACCCGCAGTAGCTCATTTAATCCTCAAGTCATCGCTCAAATACACCCCCACTGG
97929 IS [TA] GGAGGGTAGGAGGGTGTTGGGGTGCCAGTGGGGGTGTATTTGAGCGATGACTTGAGGATT[TA]AATGAGCTACTGCGGGTAAGACAGCTAGCCAGGGTCCTGGGAACCGGAAAACCCTCCGTA ctg13446 1
97944 I S AGTGGTCTTCGCATTGGGAAGAGATATCAAAACACTT
97944 P T S CGCGCCGAGGATAAGTATGAAATCATTAAAAAGACAAACY
97944 P C S ATGACGTGGCAGACGTAAGTATGAAATCATTAAAAAGACAAAT
97944 T T S ATCGGTTTGTCTTTTTAATGATTTCATACTTATAGTGTTTTGATATCTCTCCCAATGCAAGACCACTAT
97944 T C S ATCGGTTTGTCTTTTTAATGATTTCATACTTACAGTGTTTTGATATCTCTCCCAATGCAAGACCACTAT
97944 IS [TC] GGGATCTTTTGACATAACCGTCTTCACAATCGGTTTGTCTTTTTAATGATTTCATACTTA[TC]AGTGTTTTGATATCTCTCCCAATGCAAGACCACTATGTAGTTTAGCCACTGTAACTTTCT ctg22fm10 22
97999 I S CCACTAACCTGTAGAGCTGGTGATGGGCACAT
97999 P T S CGCGCCGAGGAGGCTGCAGGGTTAY
97999 P C S ATGACGTGGCAGACGAGGCTGCAGGGTTY
97999 T T S GCCTTAACCCTGCAGCCTTGTGCCCATCACCAGCTCTACAGGTTAGTGGGC
97999 T C S GCCTTAACCCTGCAGCCTCTGTGCCCATCACCAGCTCTACAGGTTAGTGGGC
97999 IS [TC] GAGGGTCCTCCGCGCAAGGGCAGCTGAATGGACTCCAGAGCAGCCTTAACCCTGCAGCCT[TC]TGTGCCCATCACCAGCTCTACAGGTTAGTGGGCACCAGCTCTTCTGCAACTGGATAGATG ctg18037 7
98000 I A CCTCCAAAGAGAGCCCCAGTTCAAAGAATGAAACATCTT
98000 P A A CGCGCCGAGGAGGCCTCTCAAAACATTGGY
98000 P G A ATGACGTGGCAGACGGCCTCTCAAAACATTGGY
98000 T A A TTTGCCAATGTTTTGAAGAGCTAGATGTTTCATTCTTTGAACTGGGGCTCTCTTTGGAGGCA
98000 T G A TTTGCCAATGTTTTGAAGAGCCAGATGTTTCATTCTTTGAACTGGGGCTCTCTTTGGAGGCA
98000 IS [AG] GCTTGGCAACATTCTCTCTTCTGCCTCCAAAGAGAGCCCAGTTCAAAGAATGAAACATCT[AG]GCCTCTCAAAACATTGGCAAATGGGCATTTTTGTTGCATTCTCTTTAAAATAGTCTTGG ctg15842 19
98006 I A AGCCAAGGCTCTTCATTGGTGCTGTTATAAGATGGTT
98006 P G A ATGACGTGGCAGACGTCCTATTTTCTTGTTTATACGTTY
98006 P A A CGCGCCGAGGATCCTATTTTCTTGTTTATACGTTCY
98006 T G A GAATGAAGGTATAAACAAGAAAATAGGACACCATCTTATAACAGCACCAATGAAGAAGCCTTGGCTAA
98006 T A A GAATGAACGTATAAACAAGAAAATAGGATACCATCTTATAACAGCACCAATGAAGAAGCCTTGGCTAA

FIGURE 129G

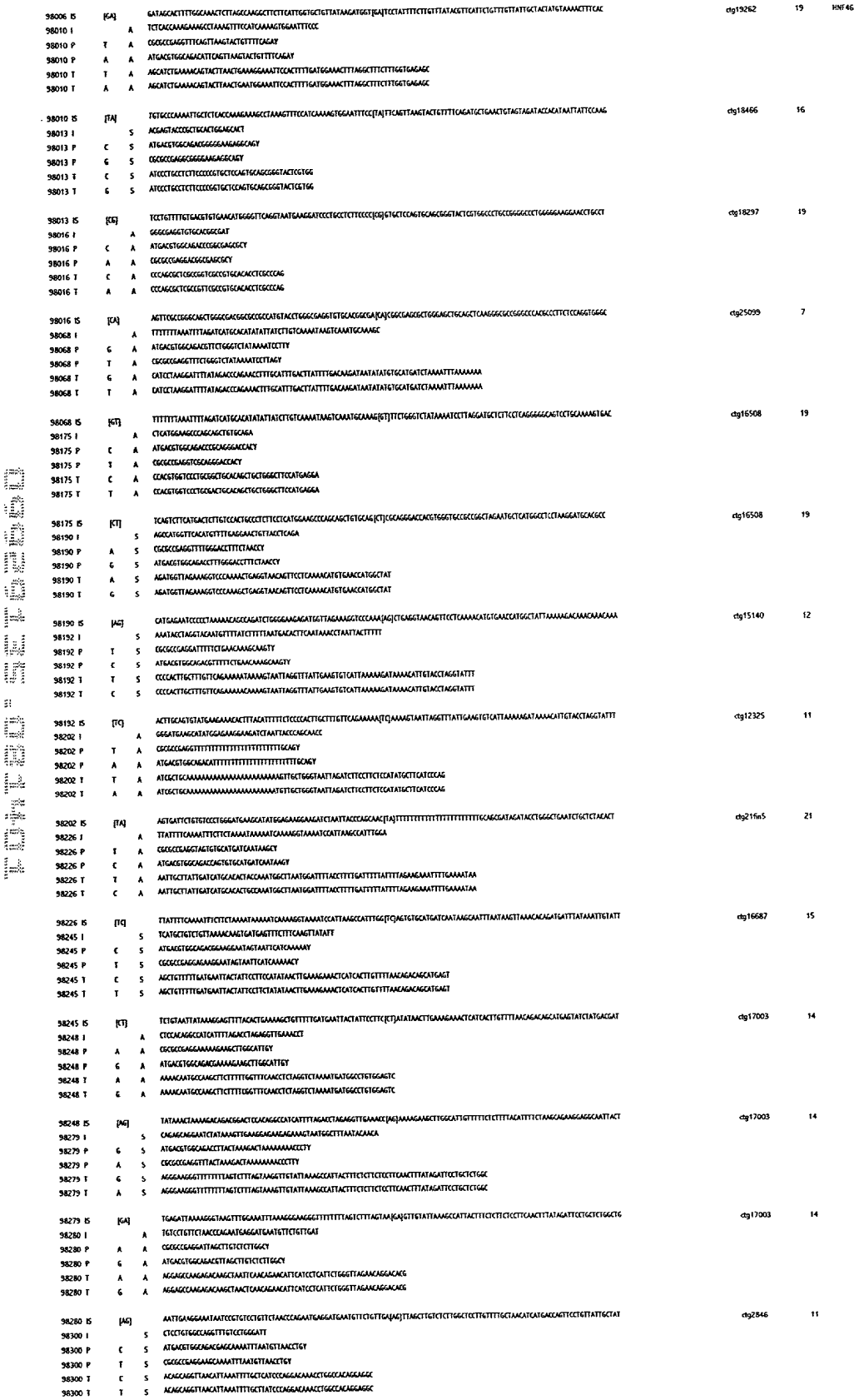

98006 IS [GA] GATAGCACTTTTGGCAAACTCTTAGCCAAGCCTTCTTCATTGGTGCTGTTATAAGATGGT[GA]TCCTATTTTCTTGTTATACGTTCATTCTGTTTGTTATTGCTACTATGTAAAACTTTCAC ctg19262 19 HNF4G
98010 I A TCTCACCAAAGAAAGCCTAAAGTTTCCATCAAAAGTGGAATTTCCC
98010 P T A CGCGCCGAGGTTTCAGTTAAGTACTGTTTTCAGAY
98010 P A A ATGACGTGGCAGACATTCAGTTAAGTACTGTTTTCAGAY
98010 T T A AGCATCTGAAAACAGTACTTAACTGAAAGGAAATTCCACTTTTGATGGAAACTTTAGGCTTTCTTTGGTGAGAGC
98010 T A A AGCATCTGAAAACAGTACTTAACTGAATGGAAATTCCACTTTTGATGGAAACTTTAGGCTTTCTTTGGTGAGAGC
98010 IS [TA] TGTGCCCAAAATTGCTCTCACCAAAGAAAGCCTAAAGTTTCCATCAAAAGTGGAATTTCC[TA]TTCAGTTAAGTACTGTTTTCAGATGCTGAACTGTAGTAGATACCACATAATTATTCCAAG ctg18466 16
98013 I S ACGAGTACCCGCTGCACTGGAGCACT
98013 P C S ATGACGTGGCAGACGGGGGAAGAGGCAGY
98013 P G S CGCGCCGAGGCGGGGAAGAGCAGY
98013 T C S ATCCCTGCCTCTCCCCCGTGCTCCAGTGCAGCGGGTACTCGTGG
98013 T G S ATCCCTGCCTCTTCCCCCGTGCTCCAGTGCAGCGGGTACTCGTGG
98013 IS [CG] TCCTGTTTTGTGACGTGTGAACATGGGGTTCAGGTAATGAAGGATCCCTGCCTCTTCCCC[CG]GTGCTCCAGTGCAGCGGGTACTCGTGGCCCTGCCGGGGCCCCTGGGGGAAGGAACCTGCCT ctg18297 19
98016 I A GGGCGAGGTGTGCACGGCGAT
98016 P C A ATGACGTGGCAGACCCGGCGAGCGCY
98016 P A A CGCGCCGAGGACGGCGAGCGCY
98016 T C A CCCAGCGCTCGCCGGTCGCCGTGCACACCTCGCCCAG
98016 T A A CCCAGCGCTCGCCGTCGCCGTGCACACCTCGCCCAG
98016 IS [CA] AGTTCGCCGGGCAGCTGGGGCGACGGCGCCGCCATGTACCTGGGCGAGGTGTGCACGGCGA[CA]CGGCGAGCGCTGGGAGCTGCAGCTCAAGGGCGCCGGGCCCACGCCCTTCTCCAGGTGGGC ctg25099 7
98068 I A TTTTTTTAAATTTTAGATCATGCACATATATTATCTTGTCAAAATAAGTCAAATGCAAAGC
98068 P G A ATGACGTGGCAGACGTTCTGGGTCTATAAAATCCTTY
98068 P T A CGCGCCGAGGTTTCTGGGTCTATAAAATCCTTAGY
98068 T G A CATCCTAAGGATTTTATAGACCCAGAAACTTTGCATTTGACTTATTTTGACAAGATAATATATGTGCATGATCTAAAATTTAAAAAAA
98068 T T A CATCCTAAGGATTTTATAGACCCAGAAACTTTGCATTTGACTTATTTTGACAAGATAATATATGTGCATGATCTAAAATTTAAAAAAA
98068 IS [GT] TTTTTTTAAATTTTAGATCATGCACATATATTATCTGTCAAAATAAGTCAAATGCAAAG[GT]TTCTGGGTCTATAAAATCCTTAGGATGCTCTTCCTCAGGGGGCAGTCCTGCAAAAGTGAC ctg16508 19
98175 I A CTCATGGAAGCCCAGCAGCTGTGCAGA
98175 P C A ATGACGTGGCAGACCCGCAGGGACCACY
98175 P T A CGCGCCGAGGTCGCAGGGACCACY
98175 T C A CCACGTGGTCCCTGCGGCTGCACAGCTGCTGGGCTTCCATGAGGA
98175 T T A CCACGTGGTCCCTGCGACTGCACAGCTGCTGGGCTTCCATGAGGA
98175 IS [CT] TCAGTCTTCATGACTCTTGTCCACTGCCCTCTTCCTCATGGAAGCCCAGCAGCTGTGCAG[CT]CGCAGGGACCACGTGGGTGCCGCCGGCTAGAATGCTCATGGCCTCCTAAGGATGCACGCC ctg16508 19
98190 I S AGCCATGGTTCACATGTTTTGAGGAACTGTTAACCTCAGA
98190 P A S CGCGCCGAGGTTTTGGGACCTTTCTAACCY
98190 P G S ATGACGTGGCAGACCTTTGGGACCTTTCTAACCY
98190 T A S AGATGGTTAGAAAGGTCCCAAAACTGAGGTAACAGTTCCTCAAAACATGTGAACCATGGCTAT
98190 T G S AGATGGTTAGAAAGGTCCCAAAGCTGAGGTAACAGTTCCTCAAAACATGTGAACCATGGCTAT
98190 IS [AG] CATGAGAATCCCCCTAAAAACAGCCAGATCTGGGGAAGAGATGGTTAGAAAGGTCCCAAA[AG]CTGAGGTAACAGTTCCTCAAAACATGTGAACCATGGCTATTAAAAAGACAAACAAACAAA ctg15140 12
98192 I S AAATACCTAGGTACAAATGTTTTATCTTTTTAATGACACTTCAATAAACCTAATTACTTTTT
98192 P T S CGCGCCGAGGATTTTTCTGAACAAGCAAGTY
98192 P C S ATGACGTGGCAGAGTTTTTCTGAACAAGCAAGTY
98192 T T S CCCCACTTGCTTTGTTCAGAAAAATAAAAGTAATTAGGTTTATTGAAGTGTCATTAAAAAGATAAAACATTGTACCTAGGTATTT
98192 T C S CCCCACTTGCTTTGTTCAGAAAAACAAAGTAATTAGGTTTATTGAAGTGTCATTAAAAAGATAAAACATTGTACCTAGGTATTT
98192 IS [TC] ACTTGCAGTGTATGAAGAAACACTTTACATTTTTCTCCCCACTTGCTTTGTTCAGAAAAA[TC]AAAAGTAATTAGGTTTATTGAAGTGTCATTAAAAAGATAAAACATTGTACCTAGGTATTT ctg12325 11
98202 I A GGGATGAAGCATATGGAGAAGGAAGATCTAATTACCCAGCAACC
98202 P T A CGCGCCCAAGGTTTTTTTTTTTTTTTTTTTTTTTGCAGY
98202 P A A ATGACGTGGCAGACATTTTTTTTTTTTTTTTTTTTTTTTTTTGCAGY
98202 T T A ATCGCTGCAAAAAAAAAAAAAAAAAAAAAAAAAAGTTGCTGGGTAATTAGATCTTCCTTCTCCATATGCTTCATCCCAG
98202 T A A ATCGCTGCAAAAAAAAAAAAAAAAAAAAAAAAAATGTTGCTGGGTAATTAGATCTTCCTTCTCCATATGCTTCATCCCAG
98202 IS [TA] AGTGATTCTGTGTCCCTGGGATGAAGCATATGGAGAAGGAAGATCTAATTACCCAGCAAC[TA]TTTTTTTTTTTTTTTTTTTTTTTGCAGCGATAGATACCTGGGCTGAATCTGCTCTACACT ctg21fin5 21
98226 I A TTATTTTCAAAATTTCTTCTAAAATAAAAATCAAAAGGTAAAATCCATTAAGCCATTTGG[TC]AGTGTGCATGATCAATAAGCAATTTAATAAGTTAAACACAGATGATTTATAAATTGTATT ctg16687 15
98226 P T A ATGACGTGGCAGACGAAGGAATAGTAATTCATCAAAAY
98226 P C A ATGACGTGGCAGACGAAGGAATAGTAATTCATCAAAAY
98226 T T A AATTGCTTATTGATCATGCACACTACCAATGGCTTAATGGATTTTACCTTTTGATTTTTAATTTTAGAAGAAATTTTGAAAATAA
98226 T C A AATTGCTTATTGATCATGCACACTGCCAAATGGCTTAATGGATTTTACCTTTTGATTTTTAATTTTAGAAGAAATTTTGAAAATAA
98226 IS [TC] TCTGTAATTATAAAGGAGTTTACACTGAAAAGCTGTTTTTGATGAATTACTATTCCTTC[CT]ATATAACTTGAAAGAAACTCATCACTTGTTTTAACAGACAGCATGAGTATCTATGACGAT ctg17003 14
98248 I A CTCCACAGGCCATCATTTTAGACCTAGAGGTTGAAACCT
98248 P A A CGCGCCGAGGAAAAAGAAGCTTGGCATTGY
98248 P G A ATGACGTGGCAGACGAAAAGAAGCTTGGCATTGY
98248 T A A AAAACAATGCCAAGCTTCTTTTTGGTTTCAACCTCTAGGTCTAAAATGATGGCCTGTGGAGTC
98248 T G A AAAACAATGCCAAGCTTCTTTTCGGTTTCAACCTCTAGGTCTAAAATGATGGCCTGTGGAGTC
98248 IS [AG] TATAAACTAAAAGACAGACGGACTCCACAGGCCATCATTTTAGACCTAGAGGTTGAAACC[AG]AAAAGAAGCTTGGCATTGTTTTCTCTTTTACATTTCTAAGCAGAAGGAGGCAATTACT ctg17003 14
98279 I S CAGAGCAGGAATCTATAAAGTTGAAGGACAAGAGAAAGTAATGGCTTTAATACAACA
98279 P G S ATGACGTGGCAGACCTTACTAAAGACTAAAAAAAACCCTY
98279 P A S CGCGCCGAGGTTTACTAAAGACTAAAAAAAACCCTTY
98279 T G S AGGGAAGGGTTTTTTTTAGTCTTTAGTAAGGTTGTATTAAAGCCATTACTTTCTCTTCTCCTTCAACTTTATAGATTCCTGCTCTGGC
98279 T A S AGGGAAGGGTTTTTTTTAGTCTTTAGTAAAGTTGTATTAAAGCCATTACTTTCTCTTCTCCTTCAACTTTATAGATTCCTGCTCTGGC
98279 IS [GA] TGAGATTAAAAGGCTAAGTTTGGAAATTTAAAGGGAAGGGTTTTTTTTAGTCTTTAGTAA[GA]GTTGTATTAAAGCCATTACTTTCTCTTCTCCTTCAACTTTATAGATTCCTGCTCTGGCTG ctg17003 14
98280 I A TGTCCTGTTCTAACCCACAATGAGGATGAATGTTCTGTTGAT
98280 P A A CGCGCCGAGGATTAGCTTGTCTCTTGGCY
98280 P G A ATGACGTGGCAGACTTAGCTTGTCTCTTGGCY
98280 T A A AGGAGCCAAGAGACAAGCTAATTCAACAGAACATTCATCCTCATTCTGGGTTAGAACAGGACACG
98280 T G A AGGAGCCAAGAGACAAGCTAACTCAACAGAACATTCATCCTCATTCTGGGTTAGAACAGGACACG
98280 IS [AG] AATTGAAGGAAATAATCCGTGTCCTGTTCTAACCCAGAATGAGGATGAATGTTCTGTTGA[AG]TTAGCTTGTCTCTTGGCTCCTTGTTTTGCTAACATCATGAACCAGTTCCTGTTATTGCTAT ctg2846 11
98300 I S CTCCTGTGGCCAGGTTTGTCCTGGGATT
98300 P C S ATGACGTGGCAGACGAGCAAAATTTAATGTTAACCTGY
98300 P T S CGCGCCGAGGAAGCAAAATTTAATGTTAACCTGY
98300 T C S ACAGCAGGTTAACATTAAATTTTGCTCATCCCAGGACAAACCTGGCCACAGGAGGC
98300 T T S ACAGCAGGTTAACATTAAATTTTGCTTATCCCAGGACAAACCTGGCCACAGGAGGC

FIGURE 129G

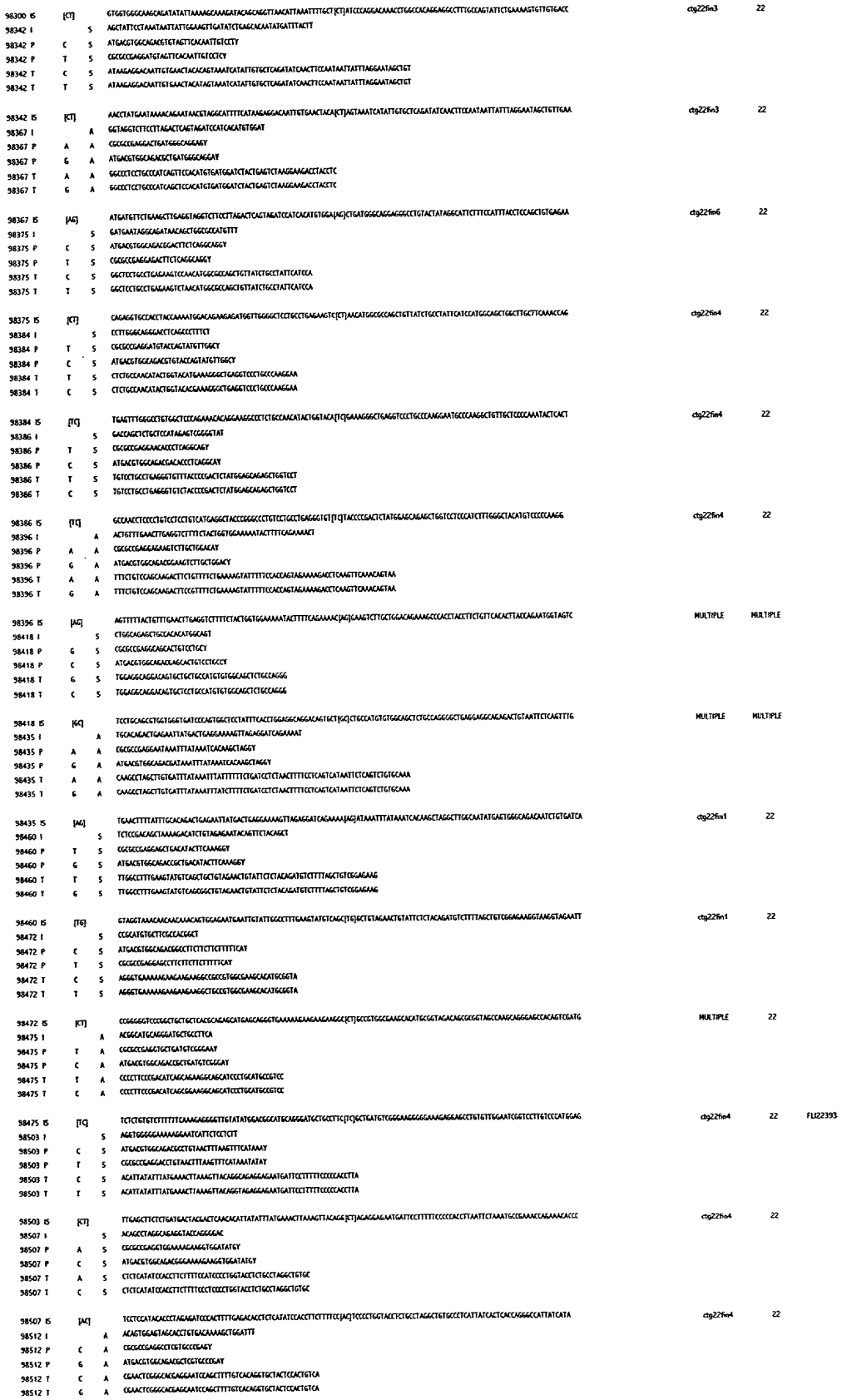

98300 IS [CT] GTGGTGGGCAAGCAGATATATTAAAAGCAAAGATACAGCAGGTTAACATTAAATTTTGCT[CT]ATCCCAGGACAAACCTGGCCACAGGAGGCCTTTGCCAGTATTCTGAAAAGTGTTGTGACC ctg22fm3 22
98342 I S AGCTATTCCTAAATAATTATTGGAAGTTGATATCTGAGCACAATATGATTTACTT
98342 P C S ATGACGTGGCAGACGTGTAGTTCACAATTGTCCTY
98342 P T S CGCGCCGAGGATGTAGTTCACAATTGTCCTCY
98342 T C S ATAAGAGGACAATTGTGAACTACACAGTAAATCATATTGTGCTCAGATATCAACTTCCAATAATTATTTAGGAATAGCTGT
98342 T T S ATAAGAGGACAATTGTGAACTACATAGTAAATCATATTGTGCTCAGATATCAACTTCCAATAATTATTTAGGAATAGCTGT
98342 IS [CT] AACCTATGAATAAAACAGAATAACGTAGGCATTTTCATAAGAGCACAATTGTGAACTACA[CT]AGTAAATCATATTGTGCTCAGATATCAACTTCCAATAATTATTTAGGAATAGCTGTTGAA ctg22fm3 22
98367 I A GGTAGGTCTTCCTTAGACTCAGTAGATCCATCACATGTGGAT
98367 P A A CGCGCCGAGGACTGATGGGCAGGAGY
98367 P G A ATGACGTGGCAGACGCTGATGGGCAGGAY
98367 T A A GGCCCTCCTGCCCATCAGTTCCACATGTGATGGATCTACTGAGTCTAAGGAAGACCTACCTC
98367 T G A GGCCCTCCTGCCCATCAGCTCCACATGTGATGGATCTACTGAGTCTAAGGAAGACCTACCTC
98367 IS [AG] ATGATGTTCTGAAGCTTGAGGTAGGTCTTCCTTAGACTCAGTAGATCCATCACATGTGGA[AG]CTGATGGGCAGGAGGGCCTGTACTATAGGCATTCTTTCCATTTACCTCCAGCTGTGAGAA ctg22fm6 22
98375 I S GATGAATAGGCAGATAACAGCTGGCGCCATGTTT
98375 P C S ATGACGTGGCAGACGGACTCTCAGGCAGGY
98375 P T S CGCGCCGAGCAGACTTCTCAGGCAGGY
98375 T C S GGCTCCTGCCTGAGAAGTCCAACATGGCGCCAGCTGTTATCTGCCTATTCATCCCA
98375 T T S GGCTCCTGCCTGAGAAGTCTAACATGGCGCCAGCTGTTATCTGCCTATTCATCCA
98384 IS [CT] CAGAGGTGCCACCTACCAAAATGGACAGAAGAGATGGTTGGGGCTCCTGCCTGAGAAGTC[CT]AACATGGCGCCAGCTGTTATCTGCCTATTCATCCATGGCAGCTGGCTTGCTTCAAACCAG ctg22fm4 22
98384 I S CCTTGGGCAGGGACCTCAGCCCTTTCT
98384 P T S CGCGCCGAGGATGTACAGTATGTTGGCY
98384 P C S ATGACGTGGCAGACGTGTACAGTATGTTGGCY
98384 T T S CTCTGCCAACATACTGGTACATGAAAGGGCTGAGGTCCCTGCCCAAGGAA
98384 T C S CTCTGCCAACATACTGGTACACGAAAGGGCTGAGGTCCCTGCCCAAGGAA
98384 IS [TC] TGAGTTTGGGCCTGTGGCTCCCAGAAACACAGGAAGGCCCTCTGCCAACATACTGGTACA[TC]GAAAGGGCTGAGGTCCCTGCCCAAGGAATGCCCAAGGCTGTTGCTCCCCAAATACTCACT ctg22fm4 22
98386 I S GACCAGCTCTGCTCCATAGAGTCGGGGTAT
98386 P T S CGCGCCGAGGAACACCCTCAGGCAGY
98386 P C S ATGACGTGGCAGACGCACACCCTCAGGCAY
98386 T T S TGTCCTGCCTGAGGGTGTTACCCCGACTCTATGGAGCAGAGCTGGTCCT
98386 T C S TGTCCTGCCTGAGGGTGTCTACCCCGACTCTATGGAGCAGAGCTGGTCCT
98386 IS [TC] GCCAACCTCCCCTGTCCTCCTGTCATGAGGCTACCCGGGCCCTGTCCTGCCTGAGGGTGT[TC]TACCCCGACTCTATGGAGCAGAGCTGGTCCTCCCATCTTTGGGCTACATGTCCCCCAAGG ctg22fm4 22
98396 I A ACTGTTTGAACTTGAGGTCTTTTCTACTGGTGGAAAAATACTTTTCAGAAAACT
98396 P A A CGCGCCGAGGAGAAGTCTTGCTGGACAY
98396 P G A ATGACGTGGCAGACGGAAGTCTTGCTGGACY
98396 T A A TTTCTGTCCAGCAAGACTTCTGTTTTCTGAAAAGTATTTTTCCACCAGTAGAAAAGACCTCAAGTTCAAACAGTAA
98396 T G A TTTCTGTCCAGCAAGACTTCCGTTTTCTGAAAAGTATTTTTCCACCAGTAGAAAAGACCTCAAGTTCAAACAGTAA
98396 IS [AG] AGTTTTTACTGTTTGAACTTGAGGTCTTTTCTACTGGTGGAAAAATACTTTTCAGAAAAC[AG]GAAGTCTTGCTGGACAGAAAGCCCACCTACCTTCTGTTCACACTTACCAGAATGGTAGTC MULTIPLE MULTIPLE
98418 I S CTGGCAGAGCTGCCACACATGGCAGT
98418 P G S CGCGCCGAGGCAGCACTGTCCTGCY
98418 P C S ATGACGTGGCAGACAGCACTGTCCTGCCY
98418 T G S TGGAGCAGGACAGTGCTCCTGCCATGTGTGGCAGCTCTGCCAGGG
98418 T C S TGGAGCAGGACAGTGCTCCTGCCATGTGTGGCAGCTCTGCCAGGG
98418 IS [GC] TCCTGCAGCGTGGTGGGTGATCCCAGTGGCTCCTATTTCACCTGGAGGCAGGACAGTGCT[GC]CTGCCATGTGTGGCAGCTCTGCCAGGGGCTGAGGAGGCAGACAGACTGTAATTCTCAGTTTG MULTIPLE MULTIPLE
98435 I A TGCACAGACTGAGAATTATGACTGAGGAAAAGTTAGAGGATCAGAAAAT
98435 P A A CGCGCCGAGAATAAATTTATAAATCACAAGCTAGGY
98435 P G A ATGACGTGGCAGACGATAAATTTATAAATCACAAGCTAGGY
98435 T A A CAAGCCTAGCTTGTGATTTATAAATTTATTTTTTCTGATCCTCTAACTTTTCCTCAGTCATAATTCTCAGTCTGTGCAAA
98435 T G A CAAGCCTAGCTTGTGATTTATAAATTTATCTTTTCTGATCCTCTAACTTTTCCTCAGTCATAATTCTCAGTCTGTGCAAA
98435 IS [AG] TGAACTTTTATTTGCACAGACTGAGAATTATGACTGAGGAAAAGTTAGAGGATCAGAAAA[AG]ATAAATTTATAAATCACAAGCTAGGCTTGGCAATATGAGTGGGCAGACAATCTGTGATCA ctg22fm1 22
98460 I S TCTCCGACAGCTAAAAGACATCTGTAGAGAATACAGTTCTACAGCT
98460 P T S CGCGCCGAGGAGCTGACATACTTCAAAGGY
98460 P G S ATGACGTGGCAGACGCTGACATACTTCAAAGGY
98460 T T S TTGGCCTTTGAAGTATGTCAGCTGCTGTAGAACTGTATTCTCTACAGATGTCTTTTAGCTGTCGGAGAAG
98460 T G S TTGGCCTTTGAAGTATGTCAGCGGCTGTAGAACTGTATTCTCTACAGATGTCTTTTAGCTGTCGGAGAAG
98460 IS [TG] GTAGGTAAACAACAACAAACAGTGGAGAATGAATTGTATTGGCCTTTGAAGTATGTCAGC[TG]GCTGTAGAACTGTATTCTCTACAGATGTCTTTTAGCTGTCGGAGAAGGTAAGGTAGAATT ctg22fm1 22
98472 I S CCGCATGTGCTTCCGCCACGGCT
98472 P C S ATGACGTGGCAGACGGCCTTCTTCTTTTTCAT
98472 P T S CGCGCCGAGGAGCCTTCTTCTTTTTCAY
98472 T C S AGGGTGAAAAAGAAGAAGAAGCCGCCGTGGCGAAGCATCATGCGGTA
98472 T T S AGGGTGAAAAAGAAGAAGAAGCCTGCCGTGGCGAAGCATCATGCGGTA
98472 IS [CT] CCGGGGGTCCCCGGCTGCTGCTCACGCAGAGCATGAGCAGGGTGAAAAAAGAAGAAGAAGGCC[CT]GCCCTGGCGAAGCACATGCGGTACAGCAGCGCGGTAGCCAAGCAGGGAGCCACAGTCGATG MULTIPLE 22
98475 I A ACGCATGCAGGGATGCTGCCTTCA
98475 P T A CGCGCCGAGGTGCTGATGTCGGGAAT
98475 P C A ATGACGTGGCAGACCGCTGATGTCGGGAY
98475 T T A CCCCTTCCCGACATCAGCAGAAGGCAGCATCCCTGCATGCCGTCC
98475 T C A CCCCTTCCCGACATCAGCGGAAGGCAGCATCCCTGCATGCCGTCC
98475 IS [TC] TCTCTGTGTCTTTTTTCAAAGAGGGGTTGTATATGGAGAGGCATGCAGGGATGCTGCCTTC[TC]GCTGATGTCGGGAAGGGGGAAAGAGGAGCCTGTGTTGGAATCGGTCCTTGTCCCATGGAG ctg22fm4 22 FL122393
98503 I S AGGTGGGGGAAAAAGGAATCATTCTCCTCTT
98503 P C S ATGACGTGGCAGACGCCTGTAACTTTAAGTTTCATAAAY
98503 P T S CGCGCCGAAGCACCTGTAACTTTAAGTTTCATAAATATAY
98503 T C S ACATTATATTTATGAAACTTAAAGTTACAGGCAGAGGAGAATGATTCCTTTTTCCCCCACCTTA
98503 T T S ACATTATATTTATGAAACTTAAAGTTACAGGTAGAGGAGAATGATTCCTTTTTCCCCCACCTTA
98503 IS [CT] TTGAGCTTCTCTGATGACTACGACTCAACACATTATATTTATGAAACTTAAAGTTACAGG[CT]AGAGGAGAATGATTCCTTTTTCCCCCACCTTAATTCTAAATGCCGAAACCAGAAACACCC ctg22fm4 22
98507 I S ACAGCCTAGGCAGAGGTACCAGGGGAC
98507 P A S CGCGCCGAGGTGGAAAAGAAGGTGGATATGY
98507 P C S ATGACGTGGCAGACGGGAAAAGAAGGTGGATATGY
98507 T A S CTCTCATATCCCACCTTCTTTTCCATCCCCTGGTACCTCTGCCTAGGCTGTGC
98507 T C S CTCTCATATCCCACCTTCTTTTCCCTCCCCTGGTACCTCTGCCTAGGCTGTGC
98507 IS [AC] TCCTCCATACACCCTAGAGATCCCACTTTTGAGACACCTCTCATATCCACCTTCTTTTCC[AC]TCCCCTGGTACCTCTGCCTAGGCTGTGCCCTCATTATCACTCACCAGGGCCATTATCATA ctg22fm4 22
98512 I A ACAGTGGAGTAGCACCTGTGACAAAAGCTGGATTT
98512 P C A CGCGCCGAGGCCTCGTGCCCGAGY
98512 P G A ATGACGTGGCAGACGCTGGTGCCCGAY
98512 T C A CGAACTCGGGCACGAGGAATCCAGCTTTGTCACAGGTGCTACTCCACTGTCA
98512 T G A CGAACTCGGGCACGAGCAATCCAGCTTTGTCACAGGTGCTACTCCACTGTCA

FIGURE 129G

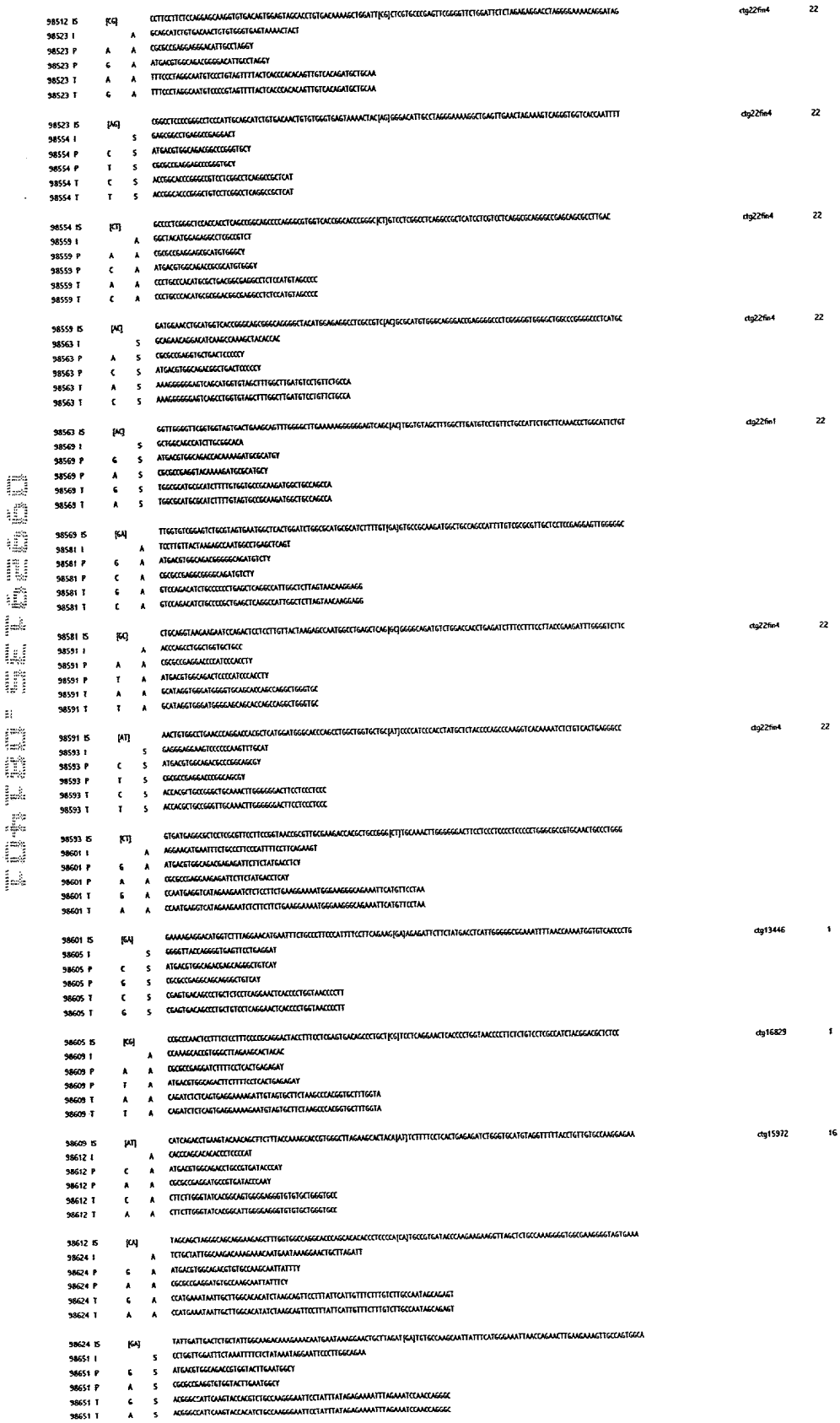


FIGURE 129G

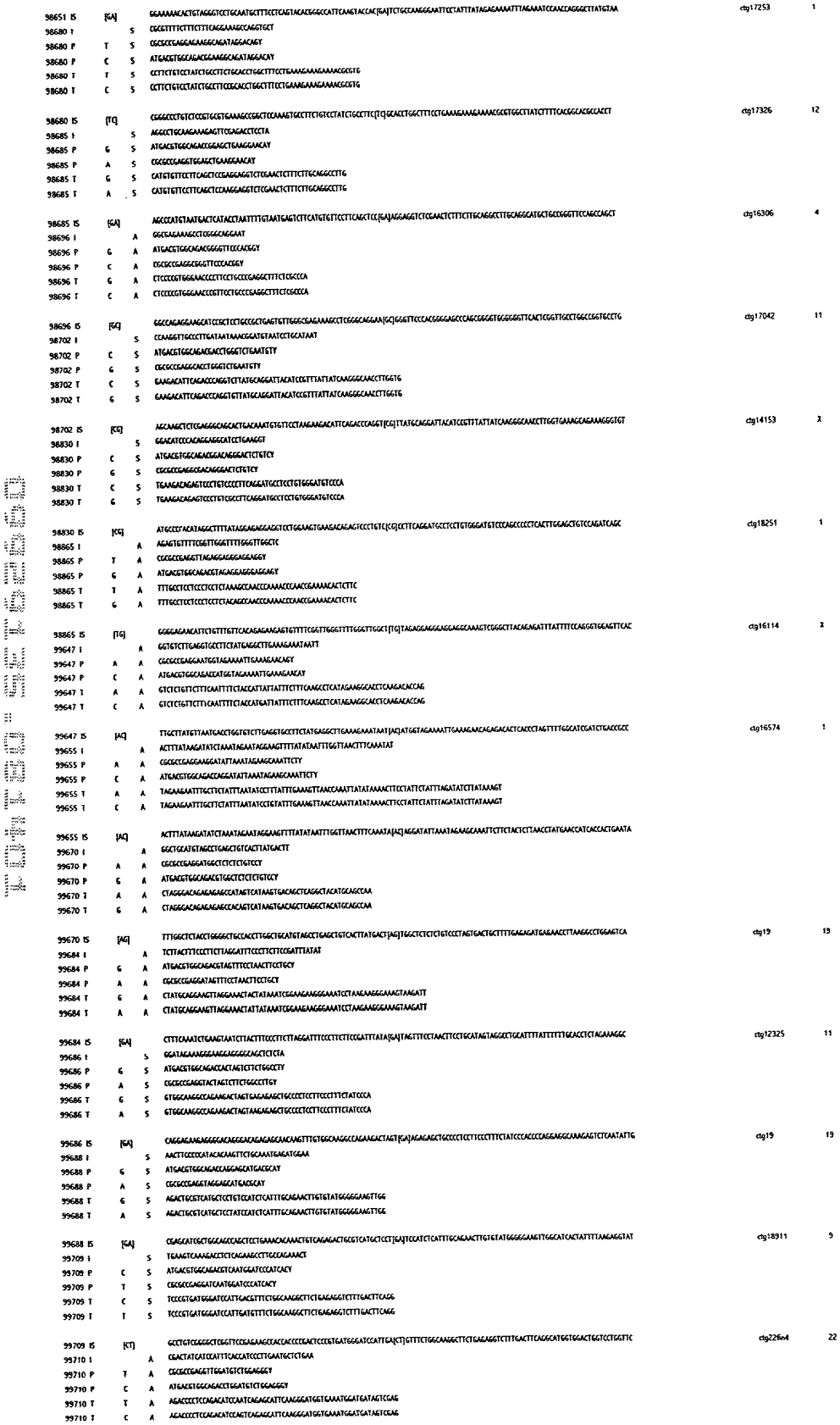
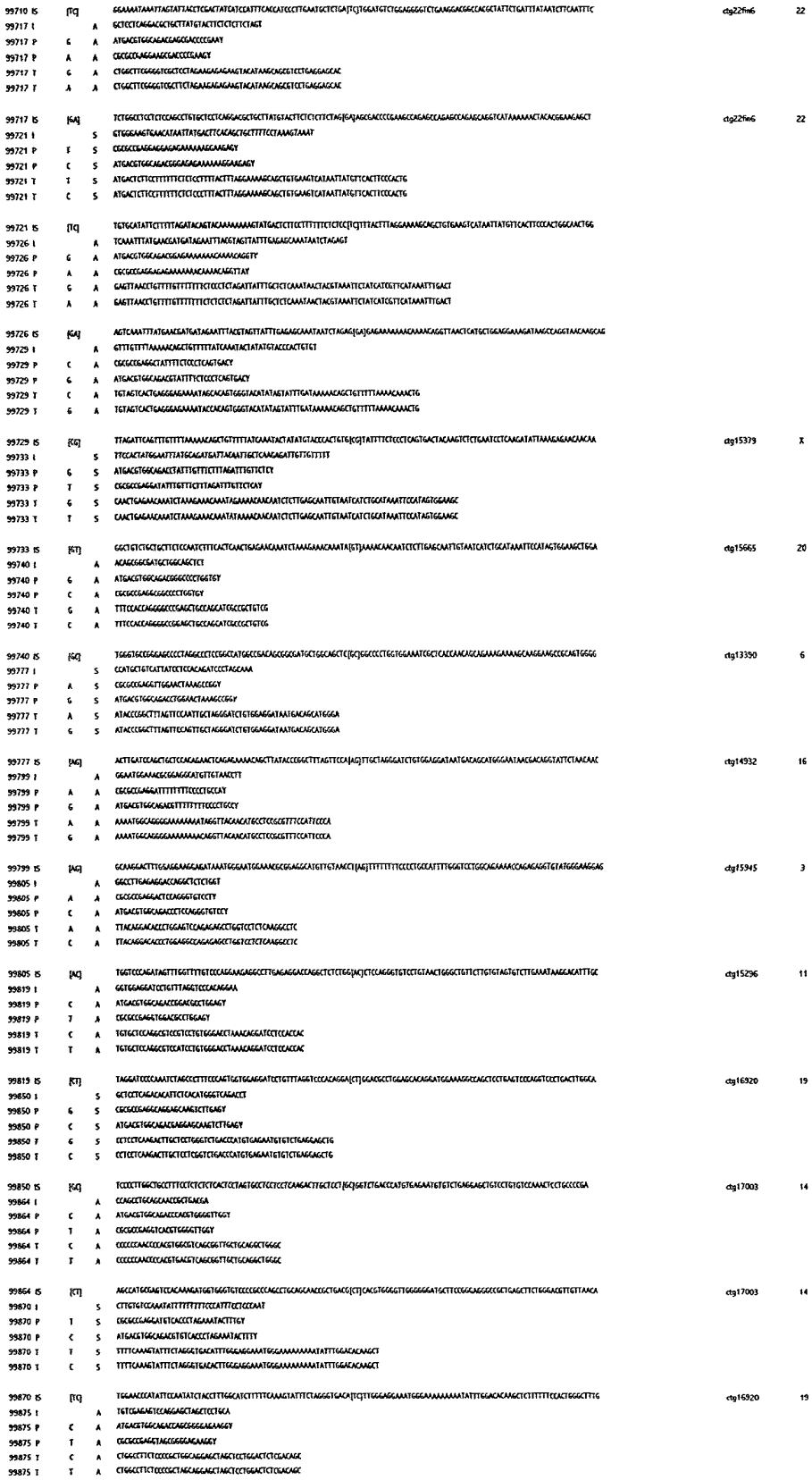

98651 IS [GA] GGAAAAACACTGTAGGGTCCTGCAATGCTTTCCTCAGTACACGGGCCATTCAAGTACCAC[GA]TCTGCCAAGGGAATTCCTATTTATAGAGAAAATTTAGAAATCCAACCAGGGCTTATGTAA ctg17253 1
98680 I S CGCGTTTTCTTTCTTTCAGGAAAGCCAGGTGCT
98680 P T S CGCGCCCGAGGAGAGGCAGATAGGACAGY
98680 P C S ATGACGTGGCAGACGGAAGGCAGATAGGACAY
98680 T T S CCTTCTGTCCTATCTGCCTTCTGCACCTGGCTTTCCTGAAAGAAAGAAAACGCGTG
98680 T C S CCTTCTGTCCTATCTGCCTTCCGCACCTGGCTTTCCTGAAAGAAAGAAAACGCGTG
98680 IS [TC] CGGGCCCTGTCTCCGTGCGTGAAAGCCGGCTCCAAAGTGCCTTCTGTCCTATCTGCCTTC[TC]GCACCTGGCTTTCCTGAAAGAAAGAAAACGCGTGGCTTATCTTTTCACGGCACGCCACCT ctg17326 12
98685 I S AGGCCTGCAAGAAAGAGTTCGAGACCTCCTA
98685 P G S ATGACGTGGCAGACCGGAGCTGAAGGAACAY
98685 P A S CGCGCCGAGGTGGAGCTGAAGGAACAY
98685 T G S CATGTGTTCCTTCAGCTCCGAGGAGGTCTCGAACTCTTTCTTGCAGGCCTTG
98685 T A S CATGTGTTCCTTCAGCTCCAAGGAGGTCTCGAACTCTTTCTTGCAGGCCTTG
98685 IS [TC] AGCCCATGTAATGACTCATACCTAATTTTGTAATGAGTCTTCATGTGTTCCTTCAGCTCC[GA]AGGAGGTCTCGAACTCTTTCTTGCAGGCCTTGCAGGCATGCTGCCGGGTTCCAGCCAGCT ctg16306 4
98696 I A GGCGAGAAAAGCCTGGGGCAGGAAT
98696 P G A ATGACGTGGCAGACGGGGTTCCCACGGY
98696 P C A CGCGCCGAGGCGGGTTCCCACGGY
98696 T G A CTCCCCGTGGGAACCCCTTCCTGCCCCAGGCTTTCTCGCCCA
98696 T C A CTCCCCGTGGGAACCCGTTCCTGCCCCAGGCTTTCTCGCCCA
98696 IS [GC] GGCCAGAGGAAGCATCCGCTCCTGCCGCTGAGTGTTGGGCGAGAAAGCCTCGGGCAGGAA[GC]GGGTTCCCACGGGGAGCCCAGCGGGGTGGGGGGTTCACTCGGTTGCCTGGCCGGTGCCTG ctg17042 11
98702 I S CCAAGGTTGCCCTTGATAATAAAGGGATGTAATCCTGCATAAT
98702 P C S ATGACGTGGCAGACGGACCTGGGTCTGAATGTY
98702 P G S CGCGCCGAGGCGACCTGGGTCTGAATGTY
98702 T C S GAAGACATTCAGACCCAGGTCTTATGCAGGATTACATCCGTTTATTATCAAGGGCAACCTTGGTG
98702 T G S GAAGACATTCAGACCCAGGTGTTATGCAGGATTACATCCGTTTATTATCAAGGGCAACCTTGGTG
98702 IS [CG] AGCAAGCTCTCGAGGGCAGCACTGACAAATGTGTCCTAAGAAGACATTCAGACCCAGGT[CG]TTATGCAGGATTACATCCGTTTATTATCAAGGGCAACCTTGGTGAAAGCAGAAAGGGTGT ctg14153 X
98830 I S GGACATCCCACAGGAGGCATCCTGAAGGT
98830 P C S ATGACGTGGCAGACGGACAGGGACTCTGTCY
98830 P G S CGCGCCGAGGCGACAGGGACTCTGTCY
98830 T C S TGAAGACAGAGTCCCTGTCCCCTTCAGGATGCCTCCTGTGGGATGTCCCA
98830 T G S TGAAGACAGAGTCCCTGTCGCCTTCAGGATGCCTCCTGTGGGATGTCCCA
98830 IS [CG] ATGCCCTACATAGGCTTTTATAGGAGAGGAAGGTCCTGGAAGTGAAGACAGAGTCCCTGTC[CG]CCTTCAGGATGCCTCCTGTGGGATGTCCCAGCCCCCTCACTTGGAGCTGTCCAGATCAGC ctg18251 1
98865 I A AGAGTGTTTCGGTTGGGTTTGGGTTGGCTC
98865 P T A CGCGCCGAGGTTAGAGGAGGAGGAGGY
98865 P G A ATGACGTGGCAGACGTAGAGGAGGAGGAGY
98865 T T A TTTGCCTCCTCCCTCCTCTAAAGCCAACCCAAAACCCAACCGAAAACACTCTTC
98865 T G A TTTGCCTCCTCCCTCCTCTACAGCCAACCCAAAACCCAACCGAAAACACTCTTC
98865 IS [TG] GGGGAGAACATCTGTTTGTTCACAGAGAAGAGTGTTTCGGTTGGGTTTTGGGTTGGCT[TG]TAGAGGAGGGAGGAGGCAAAGTCGGGCTTACAGAGATTTATTTTCCAGGGTGGAGTTCAC ctg16114 X
99647 I A GGTGTCTTGAGGTGCCTTCTATGAGGCTTGAAAGAAATAATT
99647 P A A CGCGCCGAGGAATGGTAGAAAATTGAAAGAACAGY
99647 P C A ATGACGTGGCAGACGATGGTAGAAAATTGAAAGAACAY
99647 T A A GTCTCTGTTCTTCAATTTTCTACCATTATTATTTCTTTCAAGCCTCATAGAAGGCACCTCAAGACACCAG
99647 T C A GTCTCTGTTCTTCAATTTTCTACCATGATTATTTCTTTCAAGCCTCATAGAAGGCACCTCAAGACACCAG
99647 IS [AC] TTGCTTATGTTAATGACCTGGTGTCTTGAGGTGCCTTCTATGAGGCTTGAAAGAAATAATTAC[AT]GGTAGAAAATTGAAAGAACAGAGACACTCACCCTAGTTTTGGCATCGATCTGACCGCC ctg16574 1
99655 I A ACTTTATAAGATATCTAAATAGAATAGGAAGTTTTATATAATTTGGTTAACTTTCAAATAT
99655 P A A CGCGCCGAGGAAGGATATTAAATAGAAGCAAATTCTY
99655 P C A ATGACGTGGCAGACGAGGATATTAAATAGAAGCAAATTCTY
99655 T A A TAGAAGAATTTGCTTCTATTTAATATCCTTTATTTGAAAGTTAACCAAATTATATAAAACTTCCTATTCTATTTAGATATCTTATAAAGT
99655 T C A TAGAAGAATTTGCTTCTATTTAATATCCTGTATTTGAAAGTTAACCAAATTATATAAAACTTCCTATTCTATTTAGATATCTTATAAAGT
99655 IS [AC] ACTTTATAAGATATCTAAATAGAATAGGAAGTTTTATATAATTTGGTTAACTTTCAAATA[AC]AGGATATTAAATAGAAGCAAATTCTTCTACTCTTAACCTATGAACCATCACCACTGAATA
99670 I A GGCTGCATGTAGCCTGAGCTGTCACTTATGACTT
99670 P A A CGCGCCGAGGATGGCTCTCTCTGTCCY
99670 P G A ATGACGTGGCAGACGTGGCTCTCTCTGTCCY
99670 T A A CTAGGGACAGAGAGAGCCACAGTCATAAGTGACAGCTCAGGCTACATGCAGCCAA
99670 T G A CTAGGGACAGAGAGAGCCACAGTCATAAGTGACAGCTCAGGCTACATGCAGCCAA
99670 IS [AG] TTTGGCTCTACCTGGGGCTGCCACCTGGCTGCATGTAGCCTGAGCTGTCACTTATGACT[AG]TGGCTCTCTCTGTCCCTAGTGACTGCTTTTGAGAGATGAGAACCTTAAGGCCTGGAGTCA ctg19 19
99684 I A TCTTACTTTCCCTTCTTAGGATTTCCCTTCTTCCGATTTATAT
99684 P G A ATGACGTGGCAGACGTAGTTTCCTAACTTCCTGCY
99684 P A A CGCGCCGAGGATAGTTTCCTAACTTCCTGCY
99684 T G A CTATGCAGGAAGTTAGGAAACTACTATAAATCGGAAGAAGGGAAATCCTAAGAAGGAAAGTAAGATT
99684 T A A CTATGCAGGAAGTTAGGAAACTATTATAAATCGGAAGAAGGGAAATCCTAAGAAGGAAAGTAAGATT
99684 IS [GA] CTTTCAAATCTGAAGTAATCTTACTTTCCCTTCTTAGGATTTCCCTTCTTCCGATTTATA[GA]TAGTTTCCTAACTTCCTGCATAGTAGGCCTGCATTTTATTTTTTGCACCTCTAGAAAGGC ctg12325 11
99686 I S GGATAGAAAGGGAAGCAGGGGCAGCTCCTCTA
99686 P G S ATGACGTGGCAGACCACTAGTCTTCTGGCCTY
99686 P A S CGCGCCCAGGTACTAGTCTTCTGGCCTTGY
99686 T G S GTGGCAAGGCCAGAAGACTAGTGAGAGAGCTGCCCCTCCTTCCCTTTCTATCCCA
99686 T A S GTGGCAAGGCCAGAAGACTAGTAAGAGAGCTGCCCCTCCTTCCCTTTCTATCCCA
99686 IS [GA] CAGGAGAAGAGGGGACAGGGACAGAGAGCAACAAGTTTGTGGCAAGGCCAGAAGACTAGT[GA]AGAGAGCTGCCCCTCCTTCCCTTTCTATCCCACCCCAGGAGGCAAAGAGTCTCAATATTG ctg19 19
99688 I S AACTTCCCCCATACACAAGTTCTGCAAATGAGATGGAA
99688 P G S ATGACGTGGCAGACCAGGAGCATGACGCAY
99688 P A S CGCGCCGAGGTAGGAGCATGACGCAY
99688 T G S AGACTGCGTCATGCTCCTGTCCATCTCATTTGCAGAACTTGTGTATGGGGGAAGTTGG
99688 T A S AGACTGCGTCATGCTCCTATCCATCTCATTTGCAGAACTTGTGTATGGGGGAAGTTGG
99688 IS [GA] CGAGCATCGCTGGCAGCCAGCTCCTGAAACACAAACTGTCAGAGACTGCGTCATGCTCCT[GA]TCCATCTCATTTGCAGAACTTGTGTATGGGGGAAGTTGGCATCACTATTTTAAGAGGTAT ctg18911 9
99709 I S TGAAGTCAAAGACCTCTCAGAAGCCTTGCCAGAAACT
99709 P C S ATGACGTGGCAGACGTCAATGGATCCCATCACY
99709 P T S CGCGCCGAGGATCAATGGATCCCATCACY
99709 T C S TCCCGTGATGGGATCCATTGACGTTTCTGGCAAGGCTTCTGAGAGGTCTTTGACTTCAGG
99709 T T S TCCCGTGATGGGATCCATTGATGTTTCTGGCAAGGCTTCTGAGAGGTCTTTGACTTCAGG
99709 IS [CT] GCCTGTCGGGGCTCGGTTCCGAGAAGCCACCACCCGGACTCCCGTGATGGGATCCATTGA[CT]GTTTCTGGCAAGGCTTCTGAGAGGTCTTTGACTTCAGGCATGGTGGACTGGTCCTGGTTC ctg2264 22
99710 I A CGACTATCATCCATTTCAACCATCCCTTGAATGCTCTGAA
99710 P T A CGCGCCGAGGTTGGATGTCTGGAGGGY
99710 P C A ATGACGTGGCAGACCTGGATGTCTGGAGGGY
99710 T T A AGACCCCTCCAGACATCCAATCAGAGCATTCAAGGGATGGTGAAATGGATGATAGTCGAG
99710 T C A AGACCCCTCCAGACATCCAGTCAGAGCATTCAAGGGATGGTGAAATGGATGATAGTCGAG

FIGURE 129G


99710 IS [TC] GGAAAATAAATTAGTATTACCTCGACTATCATCCATTTCACCATCCCTTGAATGCTCTGA[T/C]TGGATGTCTGGAGGGGTCTGAAGGACGGCCACGCTATTCTGATTTATAATCTTCAATTTC ctg22fin6 22
99717 I A GCTCCTCAGGACGCTGCTTATGTACTTCTCTCTTCTAGT
99717 P G A ATGACGTGGCAGACGAGCGAGGCACCCCGAAY
99717 P A A CGCGCCAAGGAAGCGACCCCGAAGT
99717 T G A CTGGCTTCGGGGTCGCTCCTAGAAAGAGAGAAGTACATAAGCAGCGTCCTGAGGAGCAC
99717 T A A CTGGCTTCGGGGTCGCTCTAGAAAGAGAGAAGTACATAAGCAGCGTCCTGAGGAGCAC

99717 IS [GA] TCTGGCCTCCTCTCCCAGCCTGTGCTCCTCAGCAGCGTGCTTATGTACTTCTCTCTTCTAG[G/A]AGCGACCCCGAAGCCAGAGCCAGAGCAGAGCAAGTCATAAAAAACTACACGGAAGAGCT ctg22fin6 22
99721 I S GTGGGAAGTGAACATAATTATGACTTCACAGCTGCTTTTCCTAAAGTAAAT
99721 P F S CGCGCCGAAGAAGCAGAGAAAAAAGCAAGAGY
99721 P C S ATGACGTGGCAGACGGGACAGAAAAAAGGAAGAGY
99721 T T S ATGACTCTTCCTTTTTTCTCTCCTTTTACTTTAGGAAAAGCAGCTGTGAAGTCATAATTATGTTCACTTCCCACTG
99721 T C S ATGACTCTTCCTTTTTTCTCTCCCTTTACTTTAGGAAAAGCAGCTGTGAAGTCATAATTATGTTCACTTCCCACTG

99721 IS [TC] TGTGCATATTCTTTTTAGATACAGTACAAAAAAAAGTATGACTCTTCCTTTTTTCTCTCC[T/C]TTTACTTTAGGAAAAGCAGCTGTGAAGTCATAATTATGTTCACTTCCCACTGGCAACTGG
99726 I A TCAAATTTATGAACGATGATAGAATTTAGGTAGTTATTTGAGAGCAAATAATCTACAGT
99726 P G A ATGACGTGGCAGACGAGAAAAAAAACAAAACAGGTY
99726 P A A CGCGCCGAGGAGACAGAAAAAAACAAAACAGGTTAY
99726 T G A GAGTTAACCTGTTTTGTTTTTTTCTCTCCTCTAGATTATTTGCTCTCAAATAACTACGTAAATTCTATCATCGTTCATAAATTTGACT
99726 T A A GAGTTAACCTGTTTTGTTTTTTTCTCTCCTCTAGATTATTTGCTCTCAAATAACTACGTAAATTCTATCATCGTTCATAAATTTGACT

99726 IS [GA] AGTCAAATTTATGAACGATGATAGAATTTACGTAGTTATTTGAGAGCAAATAATCTAGAG[G/A]GAGAAAAAAACAAAACAGGTTAACTCATGCTGGAGGAAAGATAAGCCAGGTAACAAGCAG
99729 I A GTTTGTTTTAAAAACAGCTGTTTTTATCAAATACTATATGTACCCACTGTGT
99729 P C A CGCGCCGAAGGCTATTTTCTCCCTCAGTGACY
99729 P G A ATGACGTGGCAGACGTATTTTCTCCCTCAGTGACY
99729 T C A TGTAGTCACTGAGGGAGAAAATAGCACAGTGGGTACATATAGTATTTGATAAAAACAGCTGTTTTAAAACAAACTG
99729 T G A TGTAGTCACTGAGGGAGAAAATACCACAGTGGGTACATATAGTATTTGATAAAAACAGCTGTTTTAAAACAAACTG

99729 IS [CG] TTAGATTCAGTTGTTGTTTAAAAACAGCTGTTTTATCAAATACTATATGTACCCACTGTG[C/G]TATTTTCTCCCTCAGTGACTACAAGTCTCTGAATCCTCAAGATATTAAAGAGAACAACAA ctg15379 X
99733 I S TTCCACTATGGAATTTATGCAGATGATAGAATTACAATTGCTCAAGAGATTGTTGTTTT
99733 P G S ATGACGTGGCAGACTATTTGTTTCTTTAGATTTGTTCTCY
99733 P T S CGCGCCGAGGATATTTGTTTCTTTAGATTTCTTCTCAY
99733 T G S CAACTGAGAACAAATCTAAAGAAACAAATAGAAAACAACAATCTCTTGAGCAATTGTAATCATCTGCATAAATTCCATAGTGGAAGC
99733 T T S CAACTGAGAACAAATCTAAAGAAACAAATATAAAACAACAATCTCTTGAGCAATTGTAATCATCTGCATAAATTCCATAGTGGAAGC

99733 IS [GT] GGCTGTCTGCTGCTTCTCCAATCTTTCACTCAACTGAGAACAAATCTAAAGAAACAAATA[G/T]AAAACAACAATCTCTTGAGCAATTGTAATCATCTGCATAAATTCCATAGTGGAAGCTGGA ctg15665 20
99740 I A ACAGCGGCGATGCTGGCAGCTCT
99740 P G A ATGACGTGGCAGACGGGCCCCTGGTGY
99740 P C A CGCGCCGAGGCGGCCCCTGGTGY
99740 T G A TTTCCACCAGGGGCCCGAGCTGCCAGCATCGCCGCTGTCG
99740 T C A TTTCCACCAGGGGCCGGAGCTGCCAGCATCGCCGCTGTCG

99740 IS [GC] TGGGTGCCGGAGCCCCTAGGCCCTCCGGCTATGGCCGACAGCGGCGATGCTGGCAGCTC[G/C]GGCCCCTGGTGGAAATCGCTCACCAACAGCAGAAACAAAAGCAAGGAAGCCGCAGTGGGG ctg13390 6
99777 I S CCATGCTGTCATTATCCTCACAGATCCCTAGCAAA
99777 P A S CGCGCCGAGGTTGGAACTAAAGCCGGY
99777 P G S ATGACGTGGCAGACCTGGAACTAAAGCCGGY
99777 T A S ATACCCGGCTTTAGTTCCAATTGCTAGGGATCTGTGGAGGATAATGACAGCATGGGA
99777 T G S ATACCCGGCTTTAGTTCCAGTTGCTAGGGATCTGTGGAGGATAATGACAGCATGGGA

99777 IS [AG] ACTTGATCCAGCTGCTCCACAGAACTCAGAGAAAACAGCTTATACCCGGCTTTAGTTCCA[A/G]TTGCTAGGGATCTGTGGAGGATAATGACAGCATGGGAATAACGACAGGTATTCTAACAAC ctg14932 16
99799 I A GGAATGGAAAAGCGGAGGCATGTTGTAACCTT
99799 P A A CGCGCCGAGGATTTTTTTTTCCCCTGCCAT
99799 P G A ATGACGTGGCAGACGTTTTTTTTCCCCTGCCY
99799 T A A AAAATGGCAGGGCAAAAAAAATAGGTTACAACATGCCTCCGCGTTTCCATTCCCA
99799 T G A AAAATGGCAGGGCAAAAAAAACAGGTTACAACATGCCTCCGCGTTTCCATTCCCA

99799 IS [AG] GCAAGAACTTTGGAGGAAGCAGATAAATGGGAATGGAAACGCGGAGGCATGTTGTAACCT[A/G]TTTTTTTTCCCCTGCCATTTTGGGTCCTGGCAGAAACCAGACAGGTGTATGGGAAGGAG ctg15945 3
99805 I A GGCCTTGAGAGGACCAGGCTCTCTGGT
99805 P A A CGCGCCGAGGACTCCAGGGTGTCCTY
99805 P C A ATGACGTGGCAGACCCTCCAGGGTGTCCY
99805 T A A TTACAGGACACCCTGGAGTCCAGAGAGCCTGGTCCTCTCAAGGCCTC
99805 T C A TTACAGGACACCCTGGAGGCCAGAGAGCCTGGTCCTCTCAAGGCCTC

99805 IS [AC] TGGTCCCAGATAGTTTGGTTTGTCCCAGGAAGAGGCCTTGAGAGGACCAGGCTCTCTGG[A/C]TCCAGGGTGTCCTGTAACTGGGCTGTTCTTGTGTAGTGTCTTGAAATAAGGACATTTGC ctg15296 11
99819 I A GGTGGAGGATCCTGTTTAGGTCCCACAGGAA
99819 P C A ATGACGTGGCAGACCGGAGGCCTGGAGY
99819 P T A CGCGCCGAGGTGGACGCCTGGAGY
99819 T C A TGTGCTCCAGGCGTCCGTCCTGTGGGACCTAAACAGGATCCTCCACCAC
99819 T T A TGTGCTCCAGGCGTCCATCCTGTGGGACCTAAACAGGATCCTCCACCAC

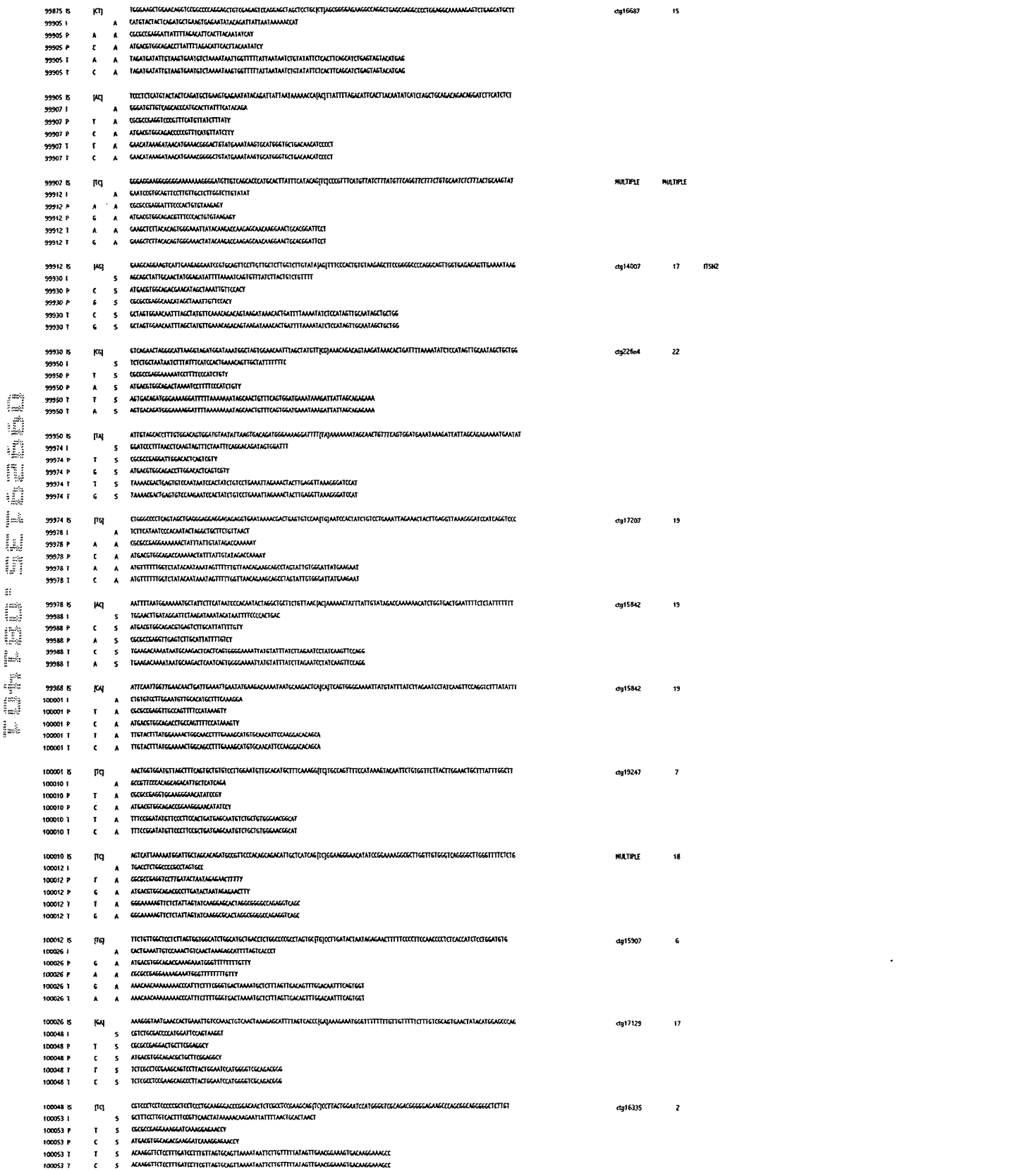
99819 IS [CT] TAGGATCCCCAAATCTAGCCCTTTCCCAGTGGTGGAGGATCCTGTTTAGGTCCCACAGGA[C/T]GGAGCCTGGAGCACAGGATGGAAAGGCAGCTCCTGAGTCCCAGGTCCCTGACTTGGCA ctg16920 19
99850 I S GCTCCTCAGACACATTCTCACATGGGTCAGACCT
99850 P G S CGCGCCGAGGAGCAGGAGCAAGTCTTGAGY
99850 P C S ATGACGTGGCAGACGAGGAGCAAGTCTTGAGY
99850 T G S CCTCCTCAAGACTTGCTCCTGGGTCTGACCCATGTGAGAATGTGTCTGAGGAGCTG
99850 T C S CCTCCTCAAGACTTGCTCCTCGGTCTGACCCATGTGAGAATGTGTCTGAGGAGCTG

99850 IS [GC] TCCCCTTGGCTGCCTTTCCTCTCTCACTCCTAGTGCCTCCTCCTCAAGACTTGCTCCT[G/C]GGTCTGACCCATGTGAGAATGTGTCTGAGGAGCTGTCCTGTGTCCAAACTCCTGCCCCGA ctg17003 14
99864 I A CCAGCCTGCAGCAACCGCTGACGA
99864 P C A ATGACGTGGCAGACCCACGTGGGGTTGGT
99864 P T A CGCGCCGAGGTCACGTGGGGTTGGY
99864 T C A CCCCCCAACCCCACGTGGCGTCAGCGGTTGCTGCAGGCTGGGC
99864 T T A CCCCCCAACCCCACGTGACGTCAGCGGTTGCTGCAGGCTGGGC

99864 IS [CT] AGCCATGCCAGTCCACAAAGATGGTGGGTGTCCCCGCCCAGCCTGCAGCAACCGCTGACG[C/T]CACGTGGGGTTGGGGGGGATGCTTCCCGGCAGGGCCCGCTGAGCTTCTGGGACGTTGTTAACA ctg17003 14
99870 I S CTTGTGTCCAAATATTTTTTTTTCCCATTTCCTCCCAAT
99870 P T S CGCGCCGAGGATGTCACCCTAGAAATACTTTGY
99870 P C S ATGACGTGGCAGACGTGTCACCCTAGAAATACTTTY
99870 T T S TTTTCAAAGTATTTCTAGGGTGACATTTGGGAGGAAATGGGAAAAAAAAATATTTGGACACAAGCT
99870 T C S TTTTCAAAGTATTTCTAGGGTGACACTTGGGAGGAAATGGGAAAAAAAAATATTTGGACACAAGCT

99870 IS [TC] TGGAACCCATATTCCAATATCTACCTTTGGCATCTTTTTCAAAGTATTTCTAGGGTGACA[T/C]TTGGGAGGAAATGGGAAAAAAAAATATTTGGACACAAGCTCTTTTTTCCACTGGGCTTTG ctg16920 19
99875 I A TGTGAGAGTCCAGGAGCTAGCTCCTGCA
99875 P C A ATGAGCTGGCAGACCAGCGGGGCAGAAGGY
99875 P T A CGCGCCGAGGTAGCGGGGCAGAAGGY
99875 T C A CTGGCCTTCTCCCCGCTGGCAGGAGCTAGCTCCTGGACTCTCGACAGC
99875 T T A CTGGCCTTCTCCCCGCTAGCAGGAGCTAGCTCCTGGACTCTCGACAGC

FIGURE 129G


99875 IS [CT] TGGGAAGCTGGAACAGGTCCGGCCCCAGGAGCCTGTCGAGAGTCCAGGAGCTAGCTCCTGC[CT]AGCGGGGAGAGGCCAGGCTGAGCGAGGCCCCTGGAGGCAAAAAGAGTCTGAGCATGCTT ctg16687 15
99905 I A CATGTACTACTCAGATGCTGAAGTGAGAATATACAGATTATTAATAAAAACCAT
99905 P A A CGCCCGAGGATTATTTTAGACATTCACTTACAATATCAY
99905 P C A ATGACGTGGCAGACCTTATTTTAGACATTCACTTACAATATCY
99905 T A A TAGATGATATTGTAAGTGAATGTCTAAAATAATTGGTTTTTATTAATAATCTGTATATTCTCACTTCAGCATCTGAGTAGTACATGAG
99905 T C A TAGATGATATTGTAAGTGAATGTCTAAAATAAGTGGTTTTTATTAATAATCTGTATATTCTCACTTCAGCATCTGAGTAGTACATGAG

99905 IS [AC] TCCCTCTCATGTACTACTCAGATGCTGAAGTGAGAATATACAGATTATTAATAAAAACCA[AC]TTATTTTAGACATTCACTTACAATATCATCTAGCTGCAGACAGACAGGATCTTCATCTCT
99907 I A GGGATGTTGTCAGCACCCATGCACTTATTTCATACAGA
99907 P T A CGCGCCCAGGCTCCCCTTTCATGTTATCTTTATY
99907 P C A ATGACGTGGCAGACCCCCGTTTCATGTTATCTTY
99907 T T A GAACATAAAGATAACATGAAACGGGACTGTATGAAATAAGTGCATGGGTGCTGACAACATCCCCT
99907 T C A GAACATAAAGATAACATGAAACGGGGCTGTATGAAATAAGTGCATGGGTGCTGACAACATCCCCT

99907 IS [TC] GGGAGGAAGGGGGGGAAAAAAAGGGGATGTTGTCAGCACCCATGCACTTATTTCATACAGA[TC]CCCGTTTCATGTTATCTTTATGTTCAGGTTCTTTCTGTGCAATCTCTTTACTGCAAGTAT MULTIPLE MULTIPLE
99912 I A GAATCCGTGCAGTTCCTTGTTGCTCTTGGTCTTGTATAT
99912 P A A CGCGCCGAGGATTTCCCACTGTGTAAGAGY
99912 P G A ATGACGTGGCAGACGTTTCCCACTGTGTAAGAGY
99912 T A A GAAGCTCTTACACAGTGGGAAATTATACAAGACCAAGAGCAACAAGGAACTGCACGGATTTCCT
99912 T G A GAAGCTCTTACACAGTGGGAAACTATACAAGACCAAGAGCAACAAGGAACTGCACGGATTCCT

99912 IS [AG] GAAGCAGGAAGTCATTGAAGAGGAATCCGTGCAGTTCCTTGTTGCTCTTGGTCTTGTATA[AG]TTTCCCACTGTGTAAGAGCTTCCGGGGCCCCAGGCAGTTGGTGAGAGAGTTGAAAATAAG ctg14007 17 ITSN2
99930 I S AGCAGCTATTGCAACTATGGAGATATTTTAAAATCAGTGTTTATCTTACTGTCTGTTTT
99930 P C S ATGAGGTGGCAGACGAACATAGCTAAATTGTTCCACT
99930 P G S CGCGCCGAGGCAACATAGCTAAATTGTTCCACY
99930 T C S GCTAGTGGAACAATTTAGCTATGTTCAAACAGACAGTAAGATAAACACTGATTTAAAATATCTCCATAGTTGCAATAGCTGCTGG
99930 T G S GCTAGTGGAACAATTTAGCTATGTTGAAACAGACAGTAAGATAAACACTGATTTAAAATATCTCCATAGTTGCAATAGCTGCTGG

99930 IS [CG] GTCAGAACTAGGGCATTAAGGTAGATGGATAAATGGCTAGTGGAACAATTTAGCTATGTT[CG]AAACAGACAGTAAGATAAACACTGATTTTAAAATATCTCCATAGTTGCAATAGCTGCTGG ctg22fm4 22
99950 I S TCTCTGCTAATAATCTTTATTTCATCCACTGAAACAGTTGCTATTTTTTTC
99950 P T S CGCGCCGAGGAAAAATCCTTTTCCCATCTGTY
99950 P A S ATGAGGTGGCAGACTAAAATCCTTTTCCCATCTGTY
99950 T T S AGTGACAGATGGGAAAAGGATTTTTAAAAAAATAGCAACTGTTTCAGTGGATGAAATAAGATTATTAGCAGAGAAA
99950 T A S AGTGACAGATGGGAAAAGGATTTTAAAAAAAATAGCAACTGTTTCAGTGGATGAAATAAGATTATTAGCAGAGAAA

99950 IS [TA] ATTGTAGCACCTTTGTGGCACAGTGGATGTAATATTAAGTGACAGATGGGAAAAGGATTTT[TA]AAAAAAATAGCAACTGTTTCAGTGGATGAAATAAGATTATTAGCAGAGAAAATGAATAT
99974 I S GGATCCCTTTAACCTCAAGTAGTTTCTAATTTCAGGACAGATAGTGGATTT
99974 P T S CGCGCCCAGGATTGGACACTCAGTCGTY
99974 P G S ATGACGTGGCAGACCTTGGACACTCAGTCGTY
99974 T T S TAAAACGACTGAGTGTCCAATAATCCACTATCTGTCCTGAAATTAGAAACTACTTGAGGTTAAAGGGATCCAT
99974 T G S TAAAACGACTGAGTGTCCAAGAATCCACTATCTGTCCTGAAATTAGAAACTACTTGAGGTTAAAGGGATCCAT

99974 IS [TG] CTGGGCCCCTCAGTAGCTGAGGAGGAGGAGGAGAGGTGAATAAAACGACTGAGTGTCCAA[TG]AATCCACTATCTGTCCTGAAATTAGAAACTACTTGAGGTTAAAGGGATCCATCAGGTCCC ctg17207 19
99978 I A TCTTCATAATCCCACAATACTAGGCTGCTTCTGTTAACT
99978 P A A CGCGCCGAGGAAAAAACTATTTATTGTATAGACCAAAAY
99978 P C A ATGACGTGGCAGACCAAAACTATTTATTGTATAGACCAAAAY
99978 T A A ATGTTTTTTGGTCTATACAATAAATAGTTTTTGTTAACAGAAGCAGCCTAGTATTGTGGGATTATGAAGAAT
99978 T C A ATGTTTTTTGGTCTATACAATAAATAGTTTTTGGTTAACAGAAGCAGCCTAGTATTGTGGGATTATGAAGAAT

99978 IS [AC] AATTTTAATGGAAAAATGCTATTCTTCATAATCCCACAATACTAGGCTGCTTCTGTTAAC[AC]AAAAACTATTTATTGTATAGACCAAAAACATCTGGTGACTGAATTTTCTCTATTTTTTT ctg15842 19
99988 I S TGGAACTTGATAGGATTCTAAGATAAATAGATAATTTTCCCCACTGAC
99988 P C S ATGACGTGGCAGACGTGAGTCTTGCATTATTTTGTY
99988 P A S CGCGCCGAGGTTGAGTCTTGCATTATTTTGTCY
99988 T C S TGAAGACAAAATAATGCAAGACTCACTCAGTGGGGAAAATTATGTATTTATCTTAGAATCCTATCAAGTTCCAGG
99988 T A S TGAAGACAAAATAATGCAAGACTCAATCAGTGGGGAAAATTATGTATTTATCTTAGAATCCTATCAAGTTCCAGG

99988 IS [CA] ATTCAATTGGTTGAACAACTGATTGAAATTGAATATGAAGACAAAATAATGCAAGACTCA[CA]TCAGTGGGGAAAATTATGTATTTATCTTAGAATCCTATCAAGTTCCAGGTCTTTATATTT ctg15842 19
100001 I A CTGTGTCCTTGGAATGTTGCACATGCTTTCAAAGGA
100001 P T A CGCGCCGAGGTTGCCAGTTTCCATAAAGTY
100001 P C A ATGACGTGGCAGACCTGCCAGTTTCCATAAAGTY
100001 T T A TTGTACTTTATGGAAAACTGGCAACCTTTGAAAGCATGTGCAACATTCCAAGGACACAGCA
100001 T C A TTGTACTTTATGGAAAACTGGCAGCCTTTGAAAGCATGTGCAACATTCCAAGGACACAGCA

100001 IS [TC] AACTGGTGGATGTTAGCTTCAGTGCTGTGTCCTGGAATGTTGCACATGCTTTCAAAGG[TC]TGCCAGTTTTCCATAAAGTACAATTCTGTGGTTCTTACTTGGAACTGCTTTATTTGGCTT ctg19247 7
100010 I A GCGGTTCCCACAGCAGACATTGCTCATCAGA
100010 P T A CGCGCCGAGGTGCAAGGGAACATATCCGY
100010 P C A ATGACGTGGCAGACCGCAAAGGAACATATCCY
100010 T T A TTTCCGGATATGTTCCCTTCCACTGATGAGCAATGTCTGCTGTGGGAACGGCAT
100010 T C A TTTCCGGATATGTTCCCTTCCGCTGATGAGCAATGTCTGCTGTGGGAACGGCAT

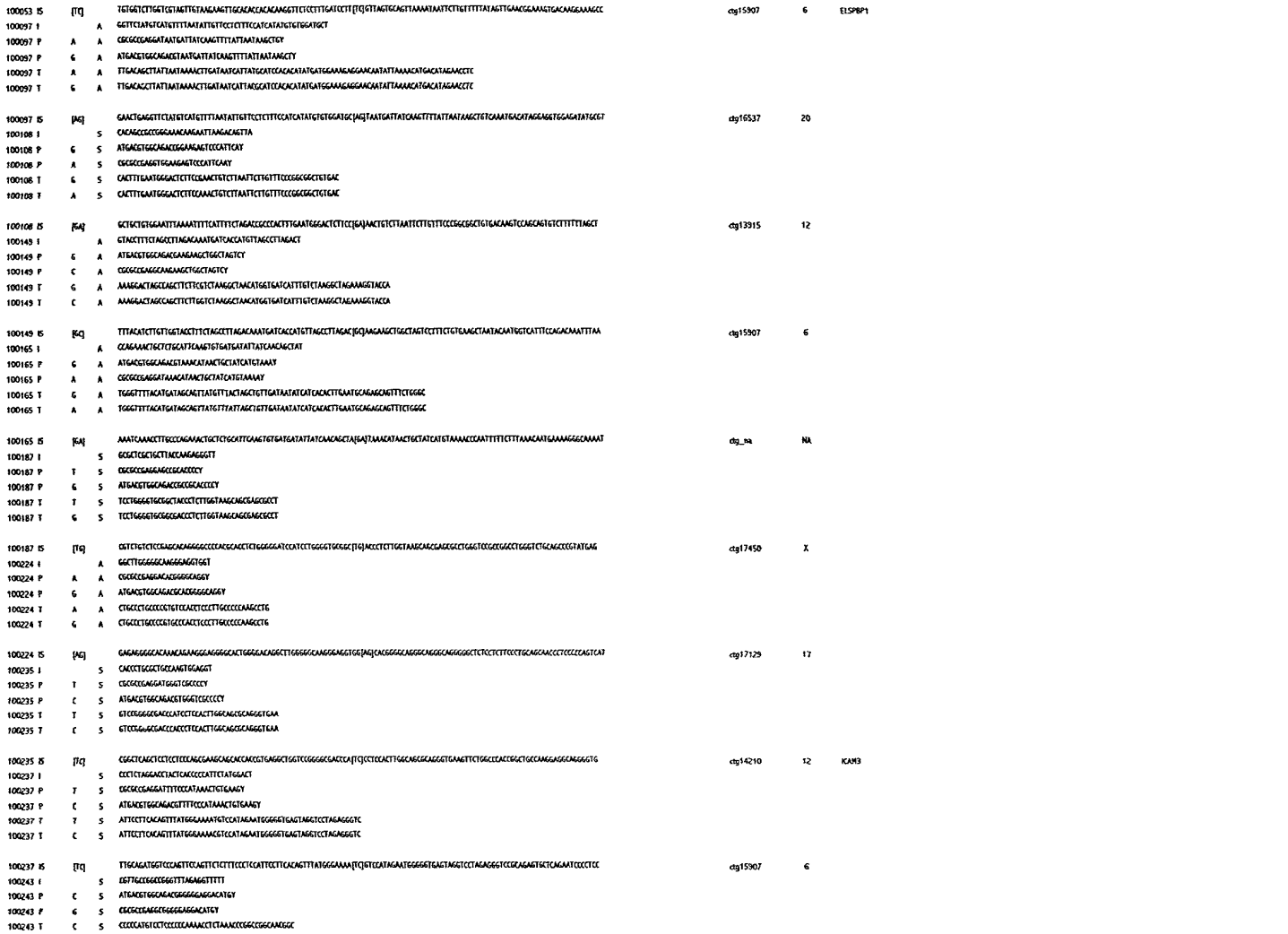
100010 IS [TC] AGTCATTAAAAATGGATTGCTAGCAGACAGATGCCGTTCCCACAGCAGACATTGCTCATCAG[TC]GGAAGGGAACATATCCGGAAAAGGGGCTTGGTTGTGGGTCAGGGGCTTGGGTTTTCTCTG MULTIPLE 18
100012 I A TGACCTCTGGCCCCGCCTAGTGCC
100012 P T A GGCGCCGAGGTCCTTGATACTAATAGAGAACTTTY
100012 P G A ATGACGTGGCAGACGCCTTGATACTAATAGAGAACTTY
100012 T T A GGGAAAAAGTTCTCTATTAGTATCAAGGAGCACTAGGGGGGGCCAGAGGTCAGC
100012 T G A GGGAAAAAGTTCTCTATTAGTATCAAGGCGCACTAGGCGGGGGCAGAGGTCAGC

100012 IS [TC] TTCTGTTGGCTCCTCTTAGTGGTGGGCATCTGGCATGCTGACCTCTGGCCCCGCCTAGTGC[TG]CCTTGATACTAATAGAGAACTTTTTCCCCTTCCAACCCCTCTCACCATCTCCTGGATGTG ctg15907 6
100026 I A CACTGAAATTGTCCAAACTGTCAACTAAAGAGCATTTTAGTCACCCT
100026 P G A ATGACGTGGCAGACGAAAGAAATGGGTTTTTTTTGTTY
100026 P A A CGCGCCGAGGAAAAGAAATGGGTTTTTTTTGTTY
100026 T G A AAACAACAAAAAAAACCCATTTCTTTGGGTGACTAAAATGCTCTTTAGTTGACAGTTTGGACAATTTCAGTGGT
100026 T A A AAACAACAAAAAAAACCCATTTCTTTGGGTGACTAAAATGCTCTTTAGTTGACAGTTTGGACAATTTCAGTGGT

100026 IS [GA] AAAGGGTAATGAACCACTGAAATTGTCCAAACTGTCAACTAAAGAGCATTTTAGTCACCC[GA]AAAGAAATGGGTTTTTTTTGTTGTTTTCTTTGTCGCAGTGAACTATACATGGAGCCCAG ctg17129 17
100048 I S CGTCTGCGACCCCATGGATTCCAGTAAGGT
100048 P T S CGCGCCGAGGACTGCTTCGGAGGCY
100048 P C S ATGACGTGGCAGACGCTGCTTCGGAGGCY
100048 T T S TCTCGCCTCCGAAGCAGTCCTTACTGGAATCCATGGGGTCGCAGACGCG
100048 T C S TCTCGCCTCCGAAGCAGCCCTTACTGGAATCCATGGGGTCGCAGACGCG

100048 IS [TC] CGTCCCTCCTCCCCCCGCCTCCCCTGCAAGGCACCCGGACAACTCTCGCCTCCGAAGCAG[TC]CCTTACTGGAATCCATGGGGTCGCAGACGGGGGGAGAAGCCCAGCGGCAGGGGCTCTTGT ctg16335 2
100053 I S GCTTTCCTTGTCACTTTCGGTTCAACTATAAAAACAAGAATTATTTTAACTGCACTAACT
100053 P T S CGCGCCGAGGAAAGGATCAAGGAGAACCY
100053 P C S ATGACGTGGCAGACGAAGGATCAAAGGAGAACCY
100053 T T S ACAAGGTTCTCCTTTGATCCTTTGTTAGTGCAGTTAAAATAATTCTTGTTTTTATAGTTGAACGGAAAGTGACAAGGAAAGCC
100053 T C S ACAAGGTTCTCCTTTGATCCTTCGTTAGTGCAGTTAAAATAATTCTTGTTTTTATAGTTGAACGGAAAGTGACAAGGAAAGCC

FIGURE 129G


100053 15 [TC] TGTGGTCTTGGTCGTAGTTGTAAGAAGTTGGACACCACACAAGGTTCTCCTTTGATCCTT[TC]GTTAGTGCAGTTAAAATAATTCTTGTTTTTATAGTTGAACGGAAAGTGACAAGGAAAGCC ctg15907 6 ELSPBP1
100097 1 A GGTTCTATGTCATGTTTTAATATTGTTCCTCTTTCCATCATATGTGTGGATGCT
100097 P A A CGCGCCGAGGATAATGATTATCAAGTTTTATTAATAAGCTGY
100097 P G A ATGACGTGGCAGAGTAATGATTATCAAGTTTTATTAATAAGCTY
100097 T A A TTGACAGCTTATTAATAAAACTTGATAATCATTATGCATCCACACATATGATGGAAAGAGGAACAATATTAAAACATGACATAGAACCTC
100097 T G A TTGACAGCTTATTAATAAAACTTGATAATCATTAGCATCCACACATATGATGGAAAGAGGAACAATATTAAAACATGACATAGAACCTC

100097 15 [AG] GAACTGAGGTTCTATGTCATGTTTTAATATTGTTCCTCTTTCCATCATATGTGTGGATGC[AG]TAATGATTATCAAGTTTTATTAATAAGCTGTCAAATGACATAGGAGGTGGAGATATGCGT ctg16537 20
100108 1 S CACAGCGCCGGGAAACAAGAATTAAGACAGTTA
100108 P G S ATGACGTGGCAGACGGAAGAGTCCCATTCAY
100108 P A S CGCGCCGAGGTGCAAGAGTCCCATTCAAY
100108 T G S CACTTTGAATGGGACTCTTCCGAACTGTCTTAATTCTTGTTTCCCGGCGGCTGTGAC
100108 T A S CACTTTGAATGGGACTCTTCCAAACTGTCTTAATTCTTGTTTCCCGGCGGCTGTGAC

100108 15 [GA] GCTGCTGTGGAATTTAAAATTTTCATTTTCTAGACCGCCCACTTTGAATGGGACTCTTCC[GA]AACTGTCTTAATTCTTGTTTCCCGGCGGCTGTGACAAGTCCAGCAGTGTCTTTTTTAGCT ctg13915 12
100149 1 A GTACCTTTCTAGCCTTAGACAAATGATCACCATGTTAGCCTTAGACT
100149 P G A ATGACGTGGCAGACGAAGAAGCTGGCTAGTCY
100149 P C A CGCGCCGAGGCAAGAAGCTGGCTAGTCY
100149 T G A AAAGCACTAGCCAGCTTCTTGGTCTAAGGCTAACATGGTGATCATTTGTCTAAGGCTAGAAAGGTACCA
100149 T C A AAAGCACTAGCCAGCTTCTTGGTCTAAGGCTAACATGGTGATCATTTGTCTAAGGCTAGAAAGGTACCA

100149 15 [GC] TTTACATCTTGTTGGTAGCTTTCTAGCCTTAGACAAATGATCACCATGTTAGCCTTAGAC[GC]AAGAAGCTGGCTAGTCCTTTCTGTGAAGCTAATACAATGGTCATTTCCAGACAAATTTAA ctg15907 6
100165 1 A CCAGAAACTGCTCTGCATTCAAGTGTGATGATATTATCAACAGCTAT
100165 P G A ATGACGTGGCAGAGGTAAACATAACTGCTATCATGTAAAY
100165 P A A CGCGCCGAGGATAAACATAACTGCTATCATGTAAAAY
100165 T G A TGGGTTTTACATGATAGCAGTTATGTTTACTAGCTGTTGATAATATCATCACACTTGAATGCAGAGCAGTTTCTGGGC
100165 T A A TGGGTTTTACATGATAGCAGTTATGTTTATTAGCTGTTGATAATATCATCACACTTGAATGCAGAGCAGTTTCTGGGC

100165 15 [GA] AAATCAAACCTTGCCCAGAAACTGCTCTGCATTCAAGTGTGATGATATTATCAACAGCTA[GA]TAAACATAACTGCTATCATGTAAAACCCAATTTTTCTTTAAACAATGAAAGGGCAAAAT dbSNP NA
100187 1 S GCGCTCGCTGCTTACCAACAGAGGGTT
100187 P T S CGCGCCGAGGAAGCCGCACCCCY
100187 P G S ATGACGTGGCAGACCGCCGCACCCCY
100187 T T S TCCTGGGGTGCCGCTACCCTCTTGGTAAGCAGCGAGCGCCT
100187 T G S TCCTGGGGTGCCGCCACCCTCTTGGTAAGCAGCGAGCGCCT

100187 15 [TG] CGTCTGTCTCCGAGCACAGAGGGCCCCACGCAGCTCTGGGGGATCCATCCTCGGGGTGCGCC[TG]ACCCTCTTGGTAAGCAGCAGCGCCTGAGTCCGCCGGCCTGGGTCTGCAGCCCGTATGAG ctg17450 X
100224 1 A GGCTTGGGGGCAAGGGAGGTGGT
100224 P A A CGCGCCGAGGACACGGGGCAGGY
100224 P G A ATGACGTGGCAGACGCACGGGGCAGGY
100224 T A A CTGCCCTGCCCCGTGTCCACCTCCCTTGCCCCCAAGCCTG
100224 T G A CTGCCCTGCCCCGTGCCCACCTCCCTTGCCCCCAAGCCTG

100224 15 [AG] GAGAGGGGCACAAACAGAAGGCAGGGGCACTGGGGACAGGCTTGGGGGCAAGGGAGGTGG[AG]CACGGGGCAGGGCAGGGCAGGGGCTCTCCTCTTCCCTGCAGCAACCCTCCCCCAGTCAT ctg17129 17
100235 1 S CACCCTGCGCTGCCAAGTGGAGGT
100235 P T S CGCGCCGAGGATGGGTCGCCCCY
100235 P C S ATGACGTGGCAGACGTGGGTCGCCCCY
100235 T T S GTCCGGGGCGACCCATCCTCCACTTGGCAGCGCAGGGTGAA
100235 T C S GTCCGGGGCGACCCACCCTCCACTTGGCAGCGCAGGGTGAA

100235 15 [TC] CGGCTCAGCTCCTCCTCCCAGCGAAGCAGCAACCACCGTGAGGCTGGTCCGGGGCGACCCA[TC]CCTCCACTTGGCAGCGCAGGGTGAAGTTCTGGCCCACCGGCTGCCAAGGAGGCAGGGGTG ctg14210 12 KCAM3
100237 1 S CCCTCTAGGACCTACTCACCCCATTCTATGGACT
100237 P T S CGCGCCGAGGATTTTCCCCATAAACTGTGAAGY
100237 P C S ATGACGTGGCAGACGTTTTCCCATAAACTGTGAAGY
100237 T T S ATTCCTTCACAGTTTATGGGAAAATGTCCATAGAATGGGGGTGAGTAGGTCCTAGAGGGTC
100237 T C S ATTCCTTCACAGTTTATGGGAAAACGTCCATAGAATGGGGGTGAGTAGGTCCTAGAGGGTC

100237 15 [TC] TTGCAGATGGTCCCAGTTCCAGTTCTCTTTCCCTCCATTCCTTCACAGTTTATGGGAAAA[TC]GTCCATAGAATGGGGGTGAGTAGGTCCTAGAGGGTCCGCAGAGTGCTCAGAATCCCCTCC ctg15907 6
100243 1 S CGTTGCCGCCCGGGTTTAGAGGTTTTT
100243 P C S ATGACGTGGCAGACGGGGGGAGGACATGY
100243 P G S CGCGCCGAGGCGGGGGAGGACATGY
100243 T C S CCCCCATGTCCTCCCCCCAAAACCTCTAAACCCGGCCGGCAACGGC
100243 T G S CCCCCATGTCCTCCCCCGAAAACCTCTAAACCCGGCCGGCAACGGC

100243 15 [CG] AAGACAGGGTCGGAGTGAAGTTTGCAACTGGGAAGGCTGCAGCGCCCCATGTCCTCCCCC[CG]AAAACCTCTAAACCCGGCCGGCAACGGCGGGAACTGGGATGTGCACCCACCGGCGCATCGG ctg15907 6
100258 1 S CACTTACCTGGCAAGGTGGTTTTGGAAGTTTCCACT
100258 P C S ATGACGTGGCAGACGGAAGCCTTCCCAGGY
100258 P T S CGCGCCGAGGAAGAAGCCTTCCCAGGY
100258 T C S CGGCCCTGGGAAGGCTTCCGTGGAAACTTCCAAAACCACCTTGCCAGGTAAGTGAA
100258 T T S CGGCCCTGGGAAGGCTTCTGTGGAAACTTCCAAAACCACCTTGCCAGGTAAGTGAA

100258 15 [CT] GCCGGTCGGGAAGCTCCACACCTAGGCGAGGACGGGCAGCAGCGGCCCTGGGAAGGCTTCJCTJGTGGAAACTTCCAAAACCACCTTGCCAGGTAAGTGAAAGTGCGCTCCGTTCTCTAGCCAC ctg14391 11
100275 1 A AGCATTCATCTTAAGCTGCTTAAGGAATCTTCTCATTGATGACACAAT
100275 P G A ATGACGTGGCAGACGGGAGGCACCTGTTY
100275 P A A CGCGCCGAGGAGCAGGCACCTGTTCY
100275 T G A ACAAGAACAGGTGCCTCCTTGTGTCATCAATGAGAAGATTCCTTAAGCAGCTTAAGATGAATGCTCA
100275 T A A ACAAGAACAGGTGCCTCCTTTGTGTCATCAATGAGAAGATTCCTTAAGCAGCTTAAGATGAATGCTCA

100275 15 [CA] TTTGATGTGTTTGAGCATTCATCTTAAGCTGCTTAAGGAATCTTCTCATTGATGACACAA[CA]GCAGGCACCTGTTCTTGTCCTTTTGCTTTACCATGAACAATCCCTGTGTGCTTGTTAGGG ctg13516 6
100280 1 S TGGAACAGGAAATAAGAGATCAGAAGAAAATGTATTTCTGAGTTTATGTGTTGGCT
100280 P T S CGCGCCGAGGATCTAATTTTCCTCTTCTTTCTCAY
100280 P C S ATGACGTGGCAGACGTCTAATTTTCCTCTTCTTTCTCY
100280 T T S CATGTGAGAAAGAAGAGGAAAATTAGATGCCAACACATAAACTCAGAAATACATTTTCTTCATGATCTCTTATTTCCTCTTCCAAT
100280 T C S CATGTGACAAAAGAACAGGGAAAATTAGACGCCAACACATAAACTCAGAAATACATTTTCTTCATGATCTCTTATTTCCTCTTCCAAT

100280 15 [TC] TCAGTCCGAATGTAATGGATTTTCTCCCTGAATCATGTGAGAAAGAAGAGGAAAATTAGA[TC]GCCAACACATAAACTCAGAAATACATTTTCTTCTGATCTCTTATTTCCTCTTCCAATACT ctg15907 6
100283 1 S GTATTCTGCTCTGATATTAAAAAAAAAAAAAGATTCTGATTTGTCATTGGAGACT
100283 P T S CGCGCCGAGGAGCTTTCATTTTAAGTTGCTCY
100283 P C S ATGACGTGGCAGACGGCTTTCATTTTAAGTTGCTY
100283 T T S TGGGGACGAACTTAAAATGAAAGCTGTCTCCAATGACAAATCAGAATCTTTTTTTTTTTTTAATATCAGAGCAGAATACAA
100283 T C S TGGGGAGCAACTTAAAATGAAAGCGTCTCCAATGACAAATCAGAATCTTTTTTTTTTTTAATATCAGAGCAGAATACAA

100283 15 [TC] TGTAAGAACACAGCACCATAGTTGTTATTGTTACCTGGGGAGCAACTTAAAATGAAAGC[TC]GTCTCCAATGACAAATCAGAATCTTTTTTTTTTTTAATATCAGAGCAGAATACAAACCA ctg15478 1
100342 1 S GTTTCACGTACCCAATGGAACTACTTAAAGATGATCAGAGTTAAGCAA
100342 P G S ATGACGTGGCAGACTTAAAATACCCTCTAGCACAAY
100342 P A S CGCGCCGAGGTTAAAATACCCTCTAGCACAAY
100342 T G S TCCGCTTGTGCTAGAGGGTATTTTAGTGCTTAACTCTGATCATCTTTAAGTAGTTCCATTGGGTACGTGAAACAC
100342 T A S TCCGCTTGTGCTAGAGGGTATTTTAATGCTTAACTCTGATCATCTTTAAGTAGTTCCATTGGGTACGTGAAACAC

FIGURE 129G

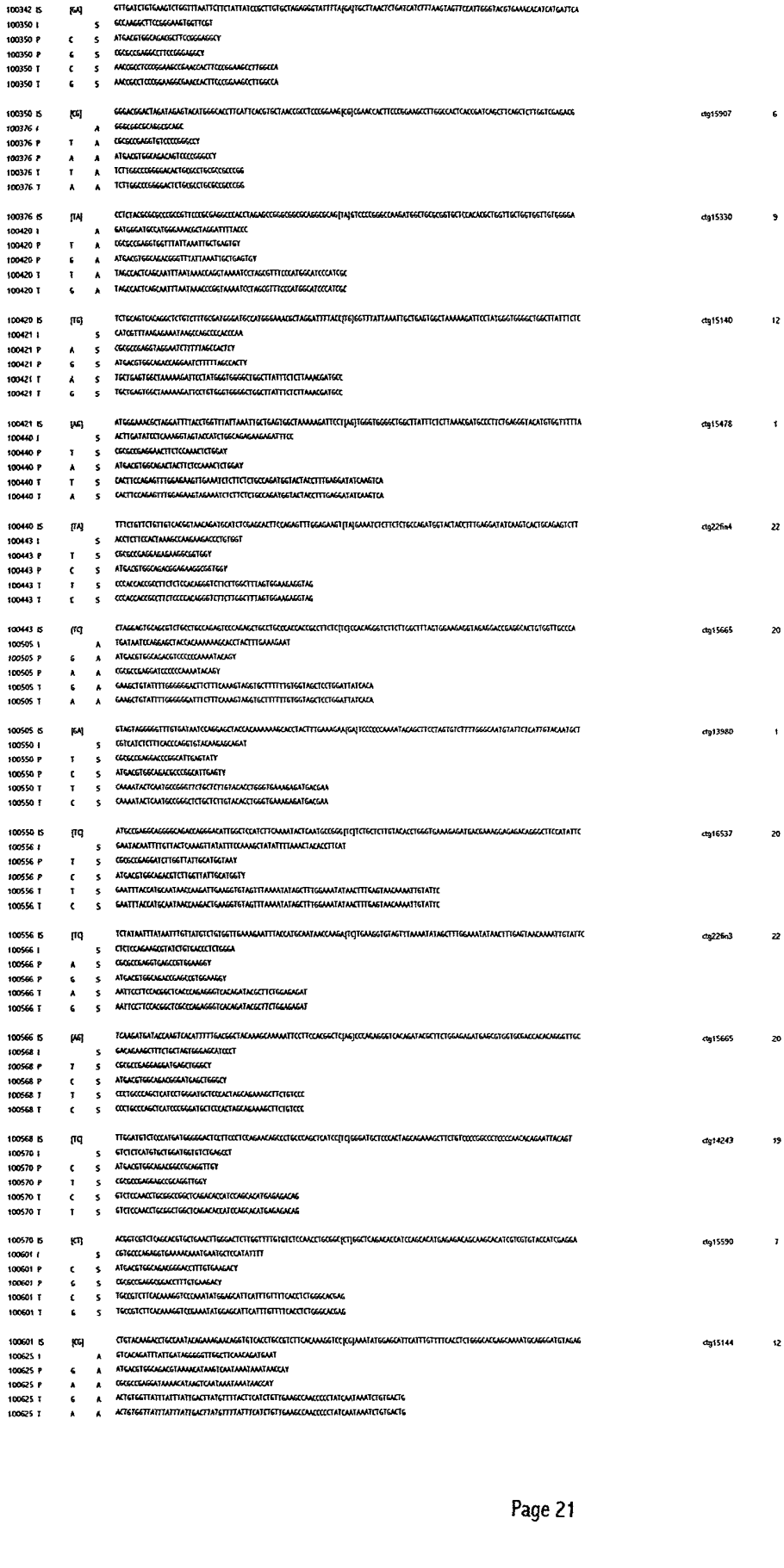

100342 IS [GA] GTTGATCTGTGAAGTCTGGTTTAATTCTTCTATTATCCGCTTGTGCTAGAGGGTATTTTA[GA]TGCTTAACTCTGATCATCTTTAAGTAGTTCCATTGGGTACGTGAAACACATCATGATTCA
100350 I S GCCAAGGCTTCCGGCAAGTGGTTCGT
100350 P C S ATGACGTGGCAGAGCTTCCGGGAGGCY
100350 P G S CGCGCCGAGGCTTCCGGGAGGCY
100350 T C S AACCGCCTCCCGGAAGCCGAACCACTTCCCGGAAGCCTTGGCCA
100350 T G S AACCGCCTCCCGGAAGCCGAACCACTTCCCGGAAGCCTTGGCCA
100350 IS [CG] GGGACGGACTAGATAGAGTACATGGGCACCTTCATTCAGTGCTAACCGCCTCCCGGAAG[CG]CGAACCACTTCCCGGAAGCCTTGGCCACTCACCGATCAGCTTCAGCTCTTGGTCGAGACG ctg15907 6
100376 I A GGGCGCGCGACGCGCAGC
100376 P T A CGCGCCGAGGTGTCCCCGGGCCY
100376 P A A ATGACGTGGCAGACAGTCCCCGGGCCY
100376 T T A TCTTGGCCCGGGGACACTGGGCCTGCGCCGCCCGG
100376 T A A TCTTGGCCCGGGGACTCTGGGCCTGCGCCGCCCGG
100376 IS [TA] CCTCTACGCGCGCCCGCCGTTCCCGCGAGGCCCACCTAGAGCCCGCGGCGGGCGAGGCGCAG[TA]GTCCCCGGGCCAAGATGGCTGCGCGGTGCTCCACACGCTGGTTGCTGGTGGTTGTGGGGA ctg15330 9
100420 I A GATGGGATGCCATGGGAAAGGCTAGGATTTTACCC
100420 P T A CGCGCCGAGGTGGTTATTAAATTGCTGAGTGY
100420 P G A ATGACGTGGCAGACGGGTTTATTAAATTGCTGAGTGY
100420 T T A TAGCCACTCAGCAATTTAATAAACCAGGTAAAATCCTAGCGTTTCCCATGGCATCCCATCGC
100420 T G A TAGCCACTCAGCAATTTAATAAACCGGTAAAATCCTAGCGTTTCCCATGGCATCCCATCGC
100420 IS [TG] TCTGCAGTCACAGGCTCTGTCTTTGCGATGGGATGCCATGGGAAACGCTAGGATTTTACC[TG]GGTTTATTAAATTGCTGAGTGGCTAAAAAGATTCCTATGGGTGGGGCTGGCTTATTTCTC ctg15140 12
100421 I S CATCGTTTAAGAGAAATAAGCCAGCCCCACCCAA
100421 P A S CGCGCCGAGGTAGGAATCTTTTTAGCCACTY
100421 P G S ATGACGTGGCAGACCAGGAATCTTTTTAGCCACTY
100421 T A S TGCTGAGTGGCTAAAAAGATTCCTATGGGTGGGGCTGGCTTATTTCTCTTAAAGGATGCC
100421 T G S TGCTGAGTGGCTAAAAAGATTCCTGTGGGTGGGGCTGGCTTATTTCTCTTAAAGGATGCC
100421 IS [AG] ATGGGAAACGCTAGGATTTTACCTGGTTTATTAAATTGCTGAGTGGCTAAAAAGATTCC[AG]TGGGTGGGGCTGGCTTATTTCTCTTAAAGGATGCCCTTCTGAGGGTACATGTGGTTTTTA ctg15478 1
100440 I S ACTTGATATCCTCAAGGTAGTAGTACCATCTGGCAGAGAAGAGATTTCC
100440 P T S CGCGCCGAGGAACTTCTCCAAACTCTGGAY
100440 P A S ATGACGTGGCAGACTACTTCTCCAAACTCTGGAY
100440 T T S CACTTCCAGAGTTTGGAGAAGTTGAAATCTCTTCTCTGCCAGATGGTACTACCTTTGAGGATATCAAGTCA
100440 T A S CACTTCCAGAGTTTGGAGAAGTAGAAATCTCTTCTCTGCCAGATGGTACTACCTTTGAGGATATCAAGTCA
100440 IS [TA] TTTCTGTTCTGTTGTCACGGTAACAGATGCATCTCGAGCACTTCGAGAGTTTGGAGAAGT[TA]GAAATCTCTTCTCTGCCAGATGGTACTACCTTTGAGGATATCAAGTCACTGCAGAGTCTT ctg22fm4 22
100443 I S ACCTCTTCCACTAAAGCCAAGAAGACCCTGTGGT
100443 P T S CGCGCCGAGGAGAGAAGCGGTGGY
100443 P C S ATGACGTGGCAGACGGAGAAGCGGTGGY
100443 T T S CCCACCACCGCTTCTCTCCACAGGGTCTTCTTGGCTTTAGTGGAAGAGGTAG
100443 T C S CCCACCACCGCTTCTCCCCACAGGGTCTTCTTGGCTTTAGTGGAAGAGGTAG
100443 IS [TC] CTAGGAGTGCAGCGTCTGCCTGCCAGAGTCCCAGAGCTGCCTGCCCACCACCGCCTTCTCTCTCCCACAGGGTCTTCTTGGCTTTAGTGGAAGAGGTAGAGGACCGAGGCACTGTGGTTGCCCA ctg15665 20
100505 I A TGATAATCCAGGAGCTACCACAAAAAAGCAACCTACTTTGAAAGAAT
100505 P G A ATGACGTGGCAGACGTCCCCCAAAATACAGY
100505 P A A CGCGCCGAGGATCCCCCCAAAATACAGY
100505 T G A GAAGCTGTATTTTGGGGGGAGTTCTTTCAAAGTAGGTGCTTTTTTGTGGTAGCTCCTGGATTATCACA
100505 T A A GAAGCTGTATTTTGGGGGGAGTTCTTTCAAAGTAGGTGCTTTTTTGTGGTAGCTCCTGGATTATCACA
100505 IS [GA] GTAGTAGGGGGTTTGTGATAATCCAGGAGCTACCACAAAAAAGCAACCTACTTTGAAAGAA[GA]TCCCCCCAAAATACAGCTTCCTAGTGTCTTTTGGGGCAATGTATTCTCATTGTACAATGCT ctg13980 1
100550 I S CGTCATCTCTTTCACCCAGGTGTACAAGAGCAGAT
100550 P T S CGCGCCGAGGACCCGGCATTGAGTATY
100550 P C S ATGACGTGGCAGACGCCCGGCATTGAGTY
100550 T T S CAAAATACTCAATGCCGGGCTCTGCTCTTGTACACCTGGGTGAAAGAGATGACGAA
100550 T C S CAAAATACTCAATGCCGGGCTCTGCTCTTGTACACCTGGGTGAAAGAGATGACGAA
100550 IS [TC] ATGCCGAGGCAGGGCGAGACAGGGACATTGGCTCCATCTTCAAAATACTCAATGCCGGG[TC]TCTGCTCTTGTACACCTGGGTGAAAGAGATGACGAAAGGACAGACAGGCTTCCATATTC ctg16537 20
100556 I S GAATACAATTTTGTTACTCAAGTTATATTTCCAAAGCTATATTTTAAACTACACCTTCAT
100556 P T S CGCGCCGAGGATCTGGTTATTGCATGGTAAY
100556 P C S ATGACGTGGCAGACGTCTTGGTTATTGCATGGTY
100556 T T S GAATTTACCATGCAATAACCAAGATTGAAGGTGTAGTTTAAAATATAGCTTTGGAAATATAACTTTGAGTAACAAAATTGTATTC
100556 T C S GAATTTACCATGCAATAACCAAGACTGAAGGTGTAGTTTAAAATATAGCTTTGGAAATATAACTTTGAGTAACAAAATTGTATTC
100556 IS [TC] TCTATAATTTATAATTTGTTATGTCTGTGGTTGAAAGAATTTACCATGCAATAACCAAGA[TC]TGAAGGTGTAGTTTAAAATATAGCTTTGGAAATATAACTTTGAGTAACAAAATTGTATTC ctg226n3 22
100566 I S CTCTCCAGAAGCGTATCTGTCACCCTCTGGGA
100566 P A S CGCGCCGAGGTGAGCCGTGGAAGGY
100566 P G S ATGACGTGGCAGACCGAGCCGTGGAAGGY
100566 T A S AATTCCTTCCAGGCTCACCCAGAGGGTCACAGATACAGCTTCTGGAGAGAT
100566 T G S AATTCCTTCCAGGCTCGCCCAGAGGGTCACAGATACAGCTTCTGGAGAGAT
100566 IS [AG] TCAAGATGATACCAAGTCACATTTTTGACGGCTACAAAGCAAAAATTCCTTCCACGGCTC[AG]CCCAGAGGGTCACAGATACGCTTCTGGAGAGATGAGCGTGGTGCGACCACACAGGGTTGC ctg15665 20
100568 I S GACAGAAGCTTTCTGCTAGTGGGAGCATCCCT
100568 P T S CGCGCCGAGGAGGATGAGCTGGGCY
100568 P C S ATGACGTGGCAGACGGGATGAGCTGGGCY
100568 T T S CCCTGCCCAGCTCATCCTGGGATGCTCCCACTAGCAGAAAGCTTCTGTCCC
100568 T C S CCCTGCCCAGCTCATCCCGGGATGCTCCCACTAGCAGAAAGCTTCTGTCCC
100568 IS [TC] TTGGATGTCTCCCATGATGGGGGACTCCTTCCCTCCAGAACAGCCCTGCCCAGCTCATCCCT[TC]GGGATGCTCCCACTAGCAGAAAGCTTCTGTCCCCGCCCTCCCCAACACAGAATTACAGT ctg14243 19
100570 I S GTCTCTCATGTGCTGGATGGTGTCTCAGCCT
100570 P C S ATGACGTGGCAGACGGCCGCAGGTTGY
100570 P T S CGCGCCGAGGAGCCGCAGGTTGGY
100570 T C S GTCTCCAACCTGCGGCCGGCTCAGACACCATCCAGCACATGAGAGACAG
100570 T T S GTCTCCAACCTGCGGCTGGCTCAGACACCATCCAGCACATGAGAGACAG
100570 IS [CT] ACGGTCGTCTCAGCACGTGCTCAACTTGGGACTCTTGGTTTTGTGTCTCCAACCTGCGGC[CT]GGCTCAGACACCATCCAGCACATGAGAGACAGCAAGCACAGCATCGTCGTGTACCATCGAGGA ctg15590 7
100601 I S CGTGCCCAGAGGTGAAAACAAATGAATGCTCCATATTTT
100601 P C S ATGACGTGGCAGAGGGGACCTTTGTGAAGACY
100601 P G S CGCGCCGAGGCGGACCTTTGTGAAGACY
100601 T C S TGCCGTCTTCACAAAGGTCCCAAATATGGAGCATTCATTTGTTTTCACCTCTGGGCACGAG
100601 T G S TGCCGTCTTCACAAAGGTCCCAAATATGGAGCATTCATTTGTTTTCACCTCTGGGCACGAG
100601 IS [CG] CTGTACAAGACCTGCCAATACAGAAAGAACAGGTGTCACCTGCCGTCCTTCACAAAGGTCC[CG]AAATATGGAGCATTCATTTGTTTTCACCTCTGGGCACGAGCAAAATGCAGGGATGTAGAG ctg15144 12
100625 I A GTCACAGATTTATTGATAGGGGGTTGGCTTCAACAGATGAAT
100625 P G A ATGACGTGGCAGACGTAAAACATAAGTCAATAAATAAATAACCAY
100625 P A A CGCGCCGAGGATAAAACATAAGTCAATAAATAAATAACCAY
100625 T G A ACTGTGGTTATTTATTTATTGACTTATGTTTTACTTCATCTGTTGAAGCCAACCCCCTATCAATAAATCTGTGACTG
100625 T A A ACTGTGGTTATTTATTTATTGACTTATGTTTTATTTCATCTGTTGAAGCCAACCCCCTATCAATAAATCTGTGACTG

FIGURE 129G

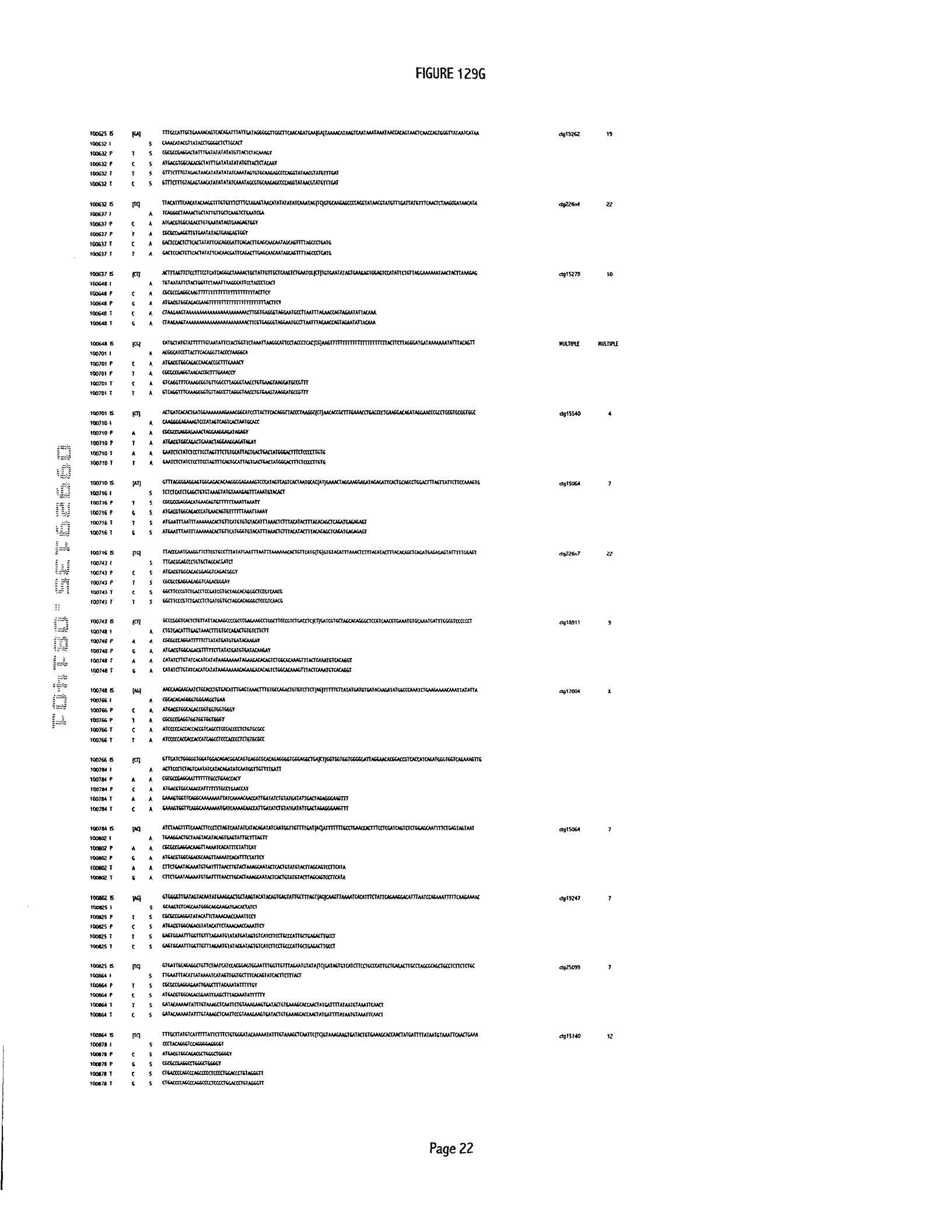
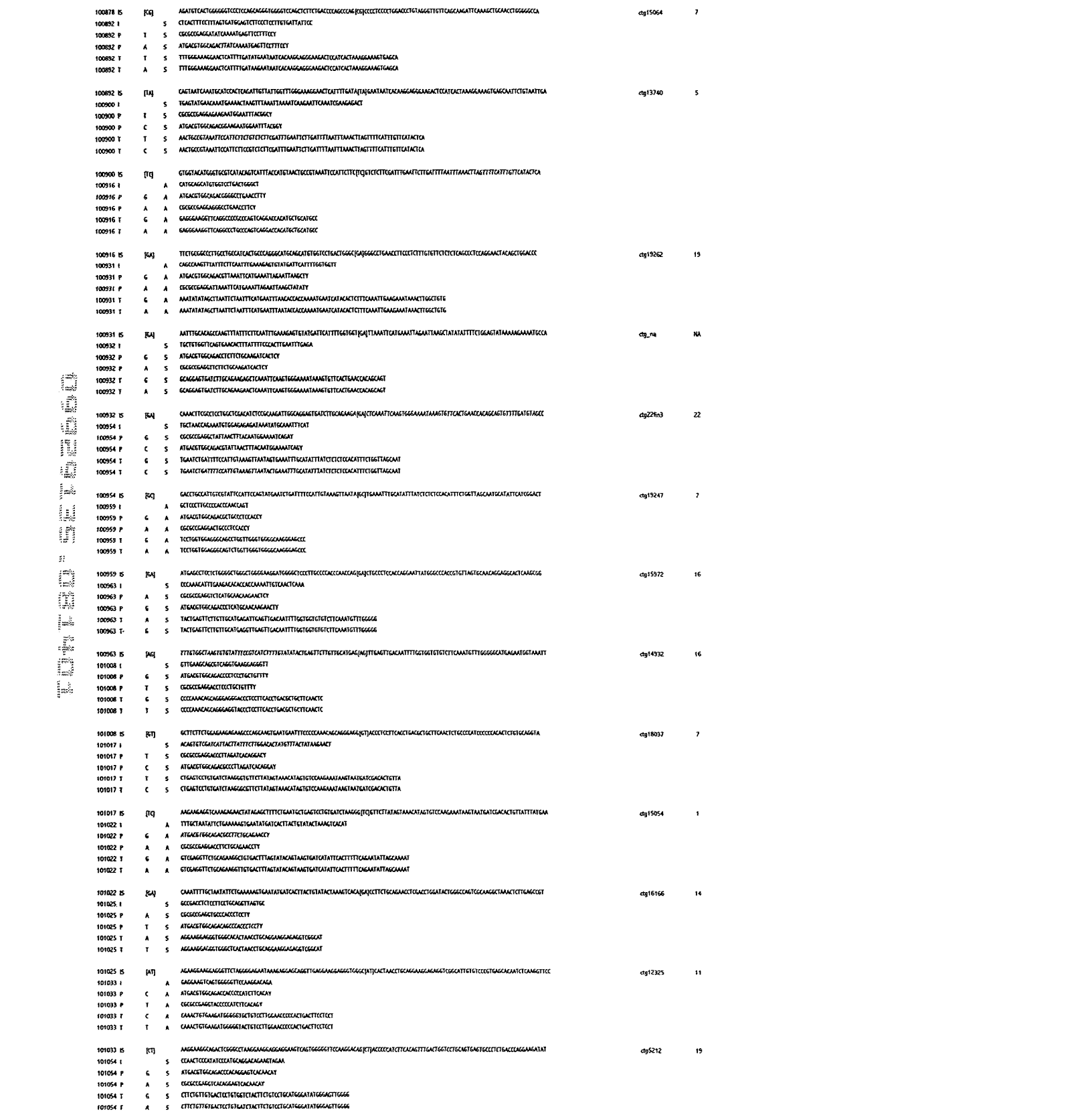


FIGURE 129G


100878 IS [CG] AGATGTCACTGGGGGGTCCCTCCAGCAGGGTGGGGTCCAGCTCTTCTGACCCCAGCCCAG[CG]CCCCTCCCCTGGACCCTGTAGGGTTGTTCAGCAAGATTCAAAGCTGCAACCTGGGGGCCA ctg15064 7
100892 I S CTCACTTTCCTTTAGTGATGGAGTCTTCCCTCCTTGTGATTATTCC
100892 P T S CGCGCCCAGGATATCAAAATGAGTTCCTTTCCY
100892 P A S ATGACGTGGCAGACTTATCAAAATGAGTTCCTTTCCY
100892 T T S TTTGGGAAAGGAACTCATTTTGATATGAATAATCACAAGGAGGGAAGACTCCATCACTAAAGGAAAGTGAGCA
100892 T A S TTTGGGAAAGGAACTCATTTTGATAAGAATAATCACAAGGAGGGAAGACTCCATCACTAAAGGAAAGTGAGCA

100892 IS [TA] CAGTAATCAAATGCATCCACTCAGATTGTTATTGGTTTGGGCAAAGGAACTCATTTTGATA[TA]GAATAATCACAAGGAGGGAAGACTCCATCACTAAAGGAAAGTGAGCAATTCTGTAATTGA ctg13740 5
100900 I S TGAGTATGAACAAATGAAAACTAAGTTTAAATTAAAATCAAGAATTCAAATCGAAGAGACT
100900 P T S CGCGCCGAGGAGAAGAATGGAATTTACGGCY
100900 P C S ATGACGTGGCAGACGGAAGAATGGAATTTACGGY
100900 T T S AACTGCCGTAAATTCCATTCTTCTGTCTCTTCGATTTGAATTCTTGATTTTAATTTAAACTTAGTTTTCATTTGTTCATACTCA
100900 T C S AACTGCCGTAAATTCCATTCTTCCGTCTCTTCGATTTGAATTCTGATTTTAATTTAAACTTAGTTTTCATTTGTTCATACTCA

100900 IS [TC] GTGGTACATGGGTGCGTCATACAGTCATTTACCATGTAACTGCCGTAAATTCCATTCTTC[TC]GTCTCTTCGATTTGAATTCTTGATTTTAATTTAAACTTAGTTTTCATTTGTTCATACTCA
100916 I A CATGCAGCATGTGGTCCTGACTGGGCT
100916 P G A ATGACGTGGCAGACGGGGCCTGAACCTTY
100916 P A A CGCGCCGAGGAGGGCCTGAACCTTCY
100916 T G A GAGGGAAGGTTCAGGCCCCCCCCAGTCAGGAACCACATGCTGCATGCC
100916 T A A GAGGGAAGGTTCAGGCCCTGCCCAGTCAGGACCACATGCTGCATGCC

100916 IS [GA] TTCTGCGGCCCTTGCCTGCCATCACTGCCCAGGGCATGCAGCATGTGGTCCTGACTGGGC[GA]GGGCCTGAACCTTCCCTCTTTGTGTTCTCTCTCAGCCCTCCAGGAACTACAGCTGGACCC ctg19262 19
100931 I A CAGCCAAGTTTATTTCTTCAATTTGAAAGAGTGTATGATTCATTTTGGTGGTY
100931 P G A ATGACGTGGCAGACGTTAAATTCATGAAATTAGAATTAAGCTATATY
100931 P A A CGCGCCGAGGATTAAATTCATGAAATTAGAATTAAGCTATATY
100931 T G A AAATATATAGCTAATTCTAATTTCATGAATTTAACACCACCAAAATGAATCATACACTCTTTCAAATTGAAGAAATAAACTTGGCTGTG
100931 T A A AAATATATAGCTAATTCTAATTTCATGAATTTAATACCACCAAAATGAATCATACACTCTTTCAAATTGAAGAAATAAACTTGGCTGTG

100931 IS [GA] AATTTGCACAGCCAAGTTTATTTCTTCAATTTGAAAGAGTGTATGATTCATTTTGGTGGT[GA]TTAAATTCATGAAATTAGAATTAAGCTATATATTTTCTGGAGTATAAAAGAAAATGCCA ctg_na NA
100932 I S TGCTGTGGTTCAGTGAACACTTTATTTTCCCACTTGAATTTGAGA
100932 P G S ATGACGTGGCAGACCTCTTCTGCAAGATCACTCY
100932 P A S CGCGCCGAGGTCTTCTGCAAGATCACTCY
100932 T G S GCAGGAGTGATCTTGCAGAAGAGCTCAAATTCAAGTGGGAAAATAAAGTGTTCACTGAACCACAGCAGT
100932 T A S GCAGGAGTGATCTTGCAGAAGAACTCAAATTCAAGTGGGAAAATAAAGTGTTCACTGAACCACAGCAGT

100932 IS [GA] CAAACTTCCGCCTCCTGCCTCCACATCTCCGCAAGATTGGCAGGAGTGATCTTGCAGAAGA[GA]CTCAAATTCAAGTGGGAAAATAAAGTGTTCACTGAACCACAGCAGTGTTTTGATGTAGCC ctg22fin3 22
100954 I S TGCTAACCAGAAATGTGGAGAGAGATAAATATGCAAATTTCAT
100954 P G S CGCGCCGAGGCTATTAACTTTACAATGGAAAATCAGAT
100954 P C S ATGACGTGGCAGACGTATTAACTTTACAATGGAAAATCAGY
100954 T G S TGAATCTGATTTTCCATTGTAAAGTTAATAGTGAAATTTGCATATTTATCTCTCTCCACATTTCTGGTTAGCAAT
100954 T C S TGAATCTGATTTTCCATTGTAAAGTTAATACTGAAATTTGCATATTTATCTCTCTCCACATTTCTGGTTAGCAAT

100954 IS [GC] GACCTGCCATTGTCGTATTCCATTCCAGTATGAATCTGATTTTCCATTGTAAAGTTAATA[GC]TGAAATTTGCATATTTATCTCTCTCCACATTTCTGGTTAGCAATGCATATTCATCGGACT ctg15247 7
100959 I A GCTCCCTTGCCCCACCCAACCAGT
100959 P G A ATGACGTGGCAGACGCTGCCCTCCACCY
100959 P A A CGCGCCGAGGACTGCCCTCCACCY
100959 T G A TCCTGGTGGAGGGCAGCCTGGTTGGGTGGGGCAAGGGAGCCC
100959 T A A TCCTGGTGGAGGGCAGTCTGGTTGGGTGGGGCAAGGGAGCCC

100959 IS [GA] ATGAGCCTCCTCTGGGGCTGGGCTGGGGAAGGATGGGGCCCCTTGCCCCACCCAACCAG[GA]CTCCCTCCACCAGGAATTATGGGCCCACCGTGTTAGTGCAACAGGAGGCACTCAAGCGG ctg15972 16
100963 I S CCCAAACATTTGAAGACACACCACCAAAATTGTCAACTCAAA
100963 P A S CGCGCCGAGGTCTCATGCAACAAGAACTCY
100963 P G S ATGAGGTGGCAGACCCTCATGCAACAAGAACTY
100963 T A S TACTGAGTTCTTGTTGCATGAGATTGAGTTGACAATTTTGGTGGTGTGTCTTCAAATGTTTGGGGG
100963 T- G S TACTGAGTTCTTGTTGCATGAGGTTGAGTTGACAATTTTGGTGGTGTGTCTTCAAATGTTTGGGGG

100963 IS [AG] TTTGTGGCTAAGTGTGTATTTCCGTCATCTTTTGTATATACTCAGTTCTTGTTGCATGAG[AG]TTGAGTTGACAATTTTGGTGGTGTGTCTTCAAATGTTTGGGGGCATGAGAATGGTAAATT ctg14932 16
101008 I S GTTGAAGCAGCGTCAGGTGAAGGAGGGTT
101008 P G S ATGAGTGGCAGACCCCTCCTGCTGTTTY
101008 P T S CGCGCCGAGGACCTCCTGCTGTTTY
101008 T G S CCCCAAACAGCAGGGAGGCACCCTCCTTCACCTGACGCTGCTTCAACTC
101008 T T S CCCCAAACAGCAGGGAGGTACCCTCCTTCACCTGACGCTGCTTCAACTC

101008 IS [GT] GCTTCTTCTGGAGAGAGAAGCCCAGCAAGTGAATGAATTTCCCCCAAACAGCAGGGAAG[GT]ACCCTCCTTCACCTGACGCTGCTTCAACTCTGCCCCATCCCCCCACACTCTGTGCAGGTA ctg18037 7
101017 I S ACAGTGTGGATCATTACTTATTTCTTGGAACACTATGTTTACTATAAGAACT
101017 P T S CGCGCCGAGGACCCTTAGATCACAGGACY
101017 P C S ATGAGTGGCAGACGCCCTTAGATCACAGGAY
101017 T T S CTGACTCCTGTGATCTAAGGGCGTTCTTATAGTAAACATAGTGTCCAAGAAATAAGTAATGATCGACACTGTTA
101017 T C S CTGAGTCCTGTGATCTAAGGGCGTTCTTATAGTAAACATAGTGTCCAAGAAATAAGTAATGATCGACACTGTTA

101017 IS [TC] AAGAAGAGGTCAAACAGAACTATAGAGCTTTTCTGAATGCTGAGTCCTGTGATCTAAGGG[TC]GTTCTTATAGTAAACATAGTGTCCAAGAAATAAGTAATGATCGACACTGTTATTTATGAA ctg15054 1
101022 I A TTTGCTAATATTCTGAAAAAGTGAATATGATCACTTACTGTATACTAAAGTCACAT
101022 P G A ATGACGTGGCAGACGCCTTCTGCAGAACCY
101022 P A A CGCGCCGAGGACCTTCTGCAGAACCTY
101022 T G A GTCGAGGTTCTGCAGAAGGCTGTGACTTTAGTATACAGTAAGTGATCATATTCACTTTTCAGAATATTAGCAAAAT
101022 T A A GTCGAGGTTCTGCAGAAGGTTGTGACTTTAGTATACAGTAAGTGATCATATTCACTTTTCAGAATATTAGCAAAAT

101022 IS [GA] CAAATTTTGCTAATATTCTGAAAAAGTGAATATGATCACTTACTGTATACTAAAGTCACA[GA]CCTTCTGCAGAACCTCGACCTGGATACTGGGCCAGTCGCAAGGCTAAACTCTTGAGCCGT ctg16166 14
101025 I S GCCGACCTCTCCTTCCTGCTGCAGCTTAGTGC
101025 P A S CGCGCCGAGGTGCCCACCCTCCTY
101025 P T S ATGACGTGGCAGACAGCCCACCCTCCTY
101025 T A S AGGAAGGAGGGTGGGCACACTAACCTGCAGGAAGGAGAGGTCGGCAT
101025 T T S AGGAAGGAGGGTGGGCTCACTAACCTGCAGGAAGGAGAGGTCGGCAT

101025 IS [AT] AGAAGGAAGGAGGGTTCTAGGGGAGAATAAAGAGGAGCAGGTTGAGGAAGGAGGGTGGGC[AT]CACTAACCTGCAGGAAGGAGAGGTCGGCATTGTCCCCGTGAGCACAATCTCAAGGTTCC ctg12325 11
101033 I A GAGGAAGTCAGTGGGGGTTCCAAGGACAGA
101033 P C A ATGACGTGGCAGACCACCCCATCTTCACAY
101033 P T A CGGCCCGAGGTACCCCCATCTTCACAY
101033 T C A CAAACTGTGAAGATGGGGGTGCTGTCCTTGGAACCCCCACTGACTTCCTCCT
101033 T T A CAAACTGTGAAGATGGGGGTACTGTCCTTGGAACCCCCACTGACTTCCTCCT

101033 IS [CT] AAGGAAGGCAGACTCGGGCCTAAGGAAGGAGGAGGAAGTCAGTGGGGGTCCAAGGACAG[CT]ACCCCCATCTTCACAGTTTGACTGGTCCTGCAGTGAGTGCCCTCTGACCCAGGAAGATAT ctg5212 19
101054 I S CCAACTCCCATATCCATGCAGGACAGAAGTAGAA
101054 P G S ATGACGTGGCAGACCCACAGGAGTCACAACAY
101054 P A S CGCGCCCAGGTCACACGAAGTCACAACAY
101054 T G S CTTCTGTTGTGACTCCTGTGGTCTACTTCTGTCCTGCATGGGATATGGGAGTTGGGG
101054 F A S CTTCTGTTGTGACTCCTGTGACTCTACTTCTGTCCTGCATGGGATATGGGAGTTGGGG

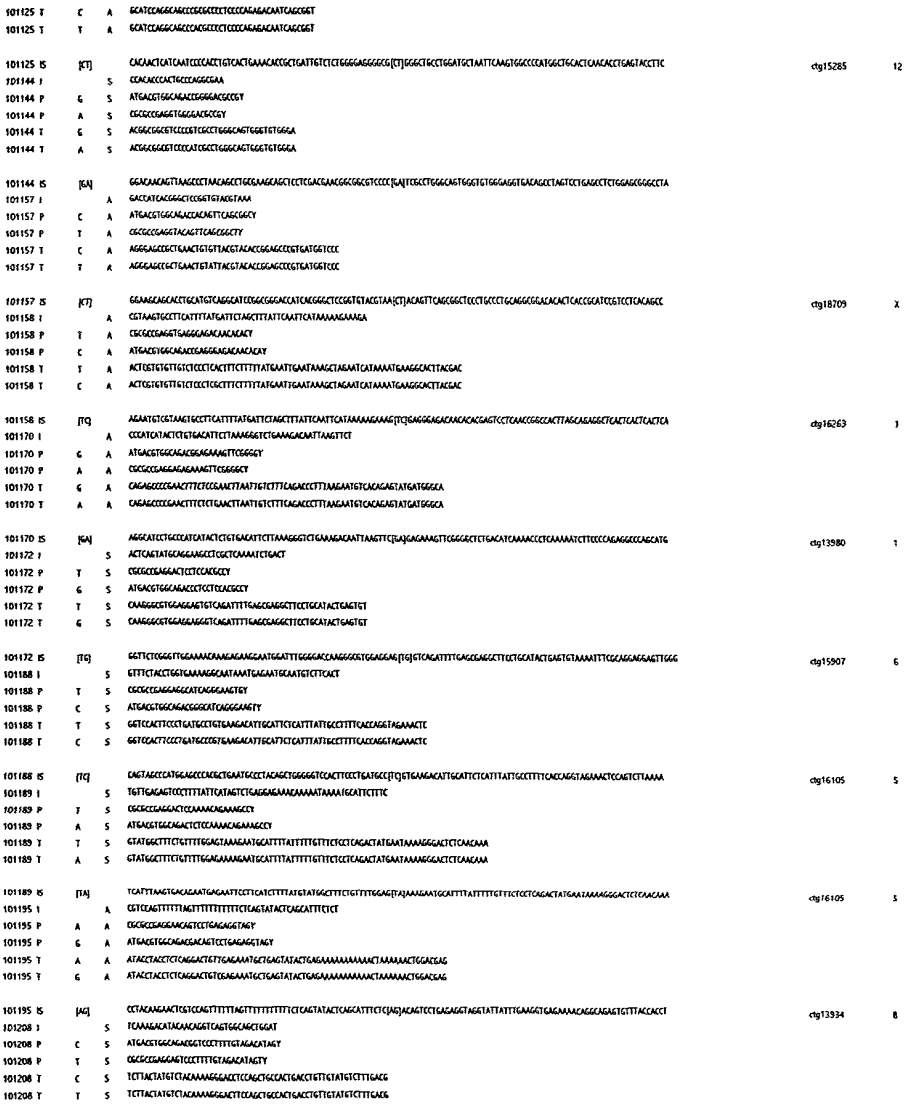
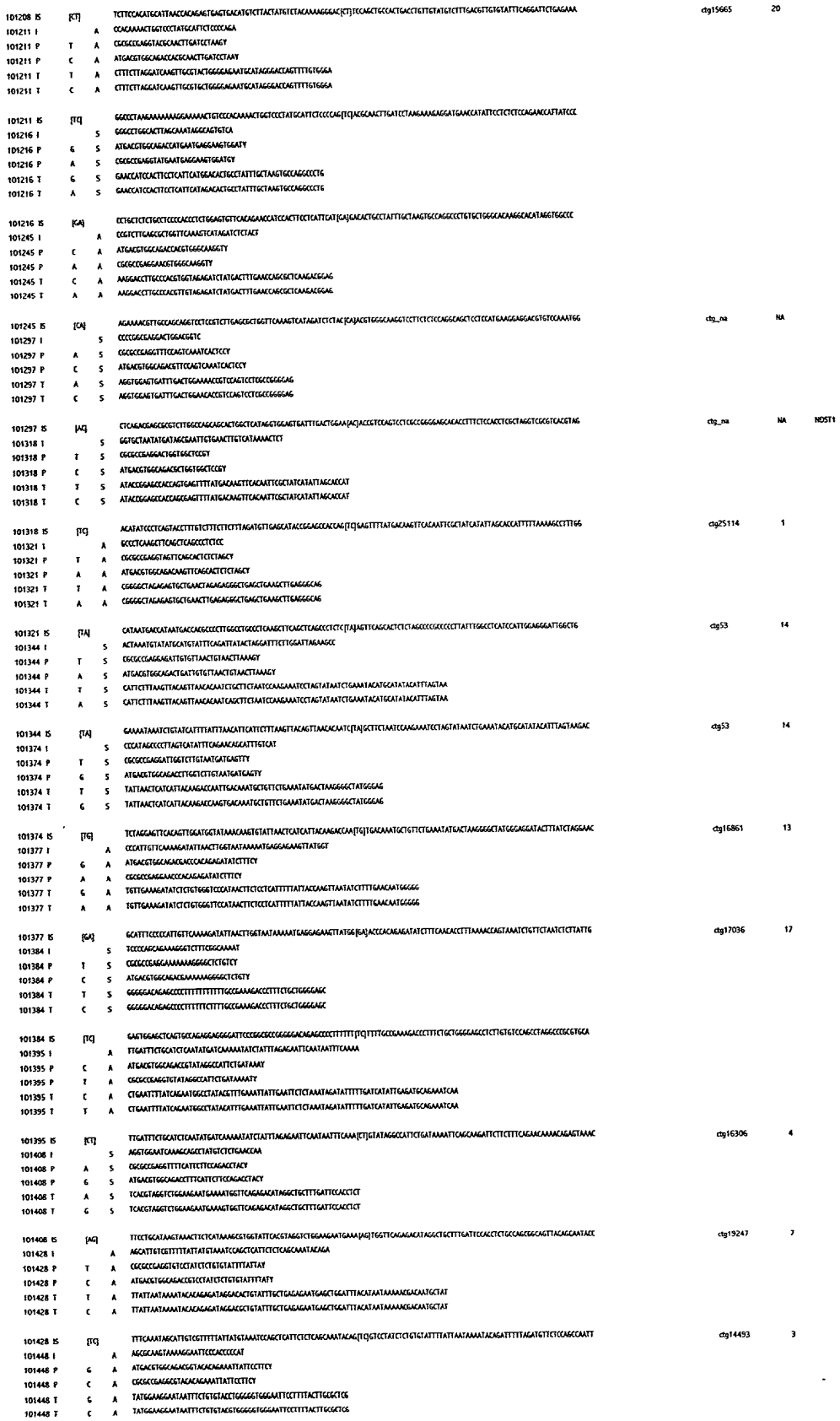


FIGURE 129G


101208 IS [CT] TCTTCCACATGCATTAACCACAGAGTGAGTGACATGTCTTACTATGTCTACAAAAGGGAC[CT]TCCAGCTGCCACTGACCTGTTGTATGTCTTTGACGTTGTGTATTTCAGGATTCTGAGAAA ctg15665 20
101211 I A CCACAAACTGGTCCCTATGCATTCTCCCCAGA
101211 P T A CGCGCCCAGGTACGCAACTTGATCCTAAGY
101211 P C A ATGACGTGGCAGACCACGCAACTTGATCCTAAY
101211 T T A CTTTCTTAGGATCAAGTTGCGTACTGGGGAGAATGCATAGGGACCAGTTTTGTGGGA
101211 T C A CTTTCTTAGGATCAAGTTGCGTGCTGGGGAGAATGCATAGGGACCAGTTTTGTGGGA

101211 IS [TC] GGCCCTAAGAAAAAAGGAAAAACTGTCCCACAAAACTGGTCCCTATGCATTCTCCCCAG[TC]ACGCAACTTGATCCTAAGAAAGAGGATGAACCATATTCCTCTCTCCAGAACCATTATCCC
101216 I S GGGCCTGGCACTTAGCAAATAGGCAGTGTCA
101216 P G S ATGACGTGGCAGACCATGAATGAGGAAGTGGATY
101216 P A S CGCGCCGAGGTATGAATGAGGAAGTGGATGY
101216 T G S GAACCATCCACTTCCTCATTCATGGACACTGCCTATTTGCTAAGTGCCAGGCCCTG
101216 T A S GAACCATCCACTTCCTCATTCATAGACACTGCCTATTTGCTAAGTGCCAGGCCCTG

101216 IS [GA] CCTGCTCTCTGCCTCCCCACCCTCTGGAGTGTTCACAGAACCATCCACTTCCTCATTCAT[GA]CACACTGCCTATTTGCTAAGTGCCAGGCCCTGTGCTGGGCACAAGGCACATAGGTGCCC
101245 I A CCGTCTTGAGCGCTGGTTCAAGTCATAGATCTCTACT
101245 P C A ATGACGTGGCAGACCACGTGGGCAAGGTY
101245 P A A CGCGCCGAGGAACGTGGGCAAGGTY
101245 T C A AAGGACCTTGCCCACGTGGTAGAGATCTATGACTTTGAACCAGCGCTCAAGACGGAG
101245 T A A AAGGACCTTGCCCACGTTGTAGAGATCTATGACTTTGAACCAGCGCTCAAGACGGAG

101245 IS [CA] AGAAAACGTTGCCAGCAGGTCCTCCGTCTGAGGCGTGGTTCAAAGTCATAGATCTCTAC[CA]ACGTGGGCAAGGTCCTTCTCTCCAGGCAGCTCCTCCATGAAGGAGGACGTGTCCAAATGG ctg_na NA
101297 I S CCCCGGCGAGGACTGGACGGTC
101297 P A S CGCGCCGAGGTTCCAGTCAAATCACTCCY
101297 P C S ATGACGTGGCAGACGTTCCAGTCAAATCACTCCY
101297 T A S AGGTGGAGTGATTTGACTGGAAACCGTCCAGTCCTGCCGCGGGCAG
101297 T C S AGGTGGAGTGATTTGACTGGAAACCGTCCAGTCCTGCCGCGGGCAG

101297 IS [AC] CTCAGAGGAGCGCGTCTTGGCCAGCAGCACTGGCTCATAGGTGGAGTGATTTGACTGGAA[AC]ACCGTCCAGTCCTCGCCGGGGAGCACACCTTTCTCCACCTCGCTAGGTCGCGTCACGTAG ctg_na NA NDST1
101318 I S GGTGCTAATATGATAGCGAATTGTGAACTTGTCATAAAACTCT
101318 P T S CGCGCCGAGGACTGGTGGCTCCGY
101318 P C S ATGAGCTGGCAGACGCTGGTGGCTCCGY
101318 T T S ATACCGGAGCCACCAGTGAGTTTTATGACAAGTTCACAATTCGCTATCATATTAGCACCAT
101318 T C S ATACCGGAGCCACCAGCGAGTTTTATGACAAGTTCACAATTCGCTATCATATTAGCACCAT

101318 IS [TC] ACATATCCCTCAGTACCTTTGTCTTTCTCTTTAGATGTTGAGCATACCGGAGCCACCAG[TC]GAGTTTTATGACAAGTTCACAATTCGCTATCATATTAGCACCATTTTTAAAAGCCTTTGG ctg25114 1
101321 I A GCCCTCAAGCTTCAGCTCAGCCCTCTCC
101321 P T A CGCGCCGAGGTAGTTCAGCACTCTCCTAGCY
101321 P A A ATGACGTGGCAGACAAGTTCAGCACTCTCTAGCY
101321 T T A CGGGGCTAGAGAGTGCTGAACTAGAGAGGGCTGAGCTGAAGCTTGAGGGCAG
101321 T A A CGGGGCTAGAGAGTGCTGAACTTGAGAGGGCTGAGCTGAAGCTTGAGGGCAG

101321 IS [TA] CATAATGACCATAATGACCAGCCCCTTGGCCTGCCCTCAAGCTTCAGCTCAGCCCTCTC[TA]AGTTCAGCACTCTCTAGCCCCGCCCCCTTATTTGGCCTCATCCATTGGAGGGATTGGCTG ctg53 14
101344 I S ACTAAATGTATATGCATGTATTTCAGATTATACTAGGATTTCTTGGATTAGAAGCC
101344 P T S CGCGCCGAGGAGATTGTGTTAACTGTAACTTAAAGY
101344 P A S ATGACGTGGCAGACTGATTGTGTTAACTGTAACTTAAAGY
101344 T T S CATTCTTAAGTTACAGTTAACACAATCTGCTTCTAATCCAAGAAATCCTAGTATAATCTGAAATACATGCATATACATTTAGTAA
101344 T A S CATTCTTAAGTTACAGTTAACACAATCAGCTTCTAATCCAAGAAATCCTAGTATAATCTGAAATACATGCATATACATTTAGTAA

101344 IS [TA] GAAAATAAATCTGTATCATTTTATTTAACATTCATTCTTTAAGTTACAGTTAACACAATC[TA]GCTTCTAATCCAAGAAATCCTAGTATAATCTGAAATACATGCATATACATTTAGTAAGAC ctg53 14
101374 I S CCCATAGCCCCTTAGTCATATTTCAGAACAGCATTTGTCAT
101374 P T S CGCGCCGAGGATTGGTCTTGTAATGATGAGTTY
101374 P G S ATGAGGTGGCAGACCTTGGTCTTGTAATGATGAGTY
101374 T T S TATTAACTCATCATTACAAGACCAATTGACAAATGCTGTTCTGAAATATGACTAAGGGGCTATGGGAG
101374 T G S TATTAACTCATCATTACAAGACCAGTGACAAATGCTGTTCTGAAATATGACTAAGGGGCTATGGGAG

101374 IS [TG] TCTAGGAGTTCACAGTTGGATGGTATAAACAAGTGTATTAACTCATCATTACAAGACCAA[TG]TGACAAATGCTGTTCTGAAATATGACTAAGGGGCTATGGGAGGATACTTTATCTAGGAAC ctg16861 13
101377 I A CCCATTGTTCAAAAGATATTAACTTGGTAATAAAAATGAGGAGAAGTTATGGT
101377 P G A ATGACGTGGCAGACGACCCACAGAGATATCTTTCY
101377 P A A CGCGCCGAGGAACCCACAGAGATATCTTTCY
101377 T G A TGTTGAAAGATATCTCTGTGGGTCCCATAACTTCTCCTCATTTTTATTACCAAGTTAATATCTTTTGAACAATGGGGG
101377 T A A TGTTGAAAGATATCTCTGTGGGTTCCATAACTTCTCCTCATTTTTATTACCAAGTTAATATCTTTTGAACAATGGGGG

101377 IS [GA] GCATTTCCCCCATTGTTCAAAAGATATTAACTTGGTAATAAAAATGAGGAGAAGTTATGG[GA]ACCCACAGAGATATCTTTCAACACCTTTAAAACCAGTAAATCTGTTCTAATCTCTTATTG ctg17036 17
101384 I S TCCCCAGCAGAAAGGTCTTTCGGCAAAAT
101384 P T S CGCGCCGAGGAAAAAAAGGGGCTCTGTCY
101384 P C S ATGACGTGGCAGACAAAAAAGGGGCTCTGTY
101384 T T S GGGGGACAGAGCCCCTTTTTTTTTTGCCGAAAGACCCTTTCTGCTGGGGAGC
101384 T C S GGGGGACAGAGCCCCTTTTTTCTTTGCCGAAAGACCCTTTCTGCTGGGGAGC

101384 IS [TC] GAGTGGAGCTCAGTGCCAGAGGAGGGGATTCCCGGCGCCGGGGGACAGAGCCCTTTTTT[TC]TTTGCCGAAAGACCCTTTCTGCTGGGGAGCCTCTGTGTCCAGCCTAGGCCCGCGTGCA
101395 I A TTGATTTCTGCATCTCAATATGATCAAAAATATCTATTTAGAGAATTCAATAATTTCAAA
101395 P C A ATGACGTGGCAGACGTATAGGCCATTCTGATAAAY
101395 P T A CGCGCCGAGGTGTATAGGCCATTCTGATAAAAY
101395 T C A CTGAATTTTATCAGAATGGCCTATACGTTTGAAATTATTGAATTCTCTAAATAGATATTTTTGATCATATTGAGATGCAGAAATCAA
101395 T T A CTGAATTTTATCAGAATGGCCTATACATTTGAAATTATTGAATTCTCTAAATAGATATTTTTGATCATATTGAGATGCAGAAATCAA

101395 IS [CT] TTGATTTCTGCATCTCAATATGATCAAAAATATCTATTTAGAGAATTCAATAATTTCAAA[CT]GTATAGGCCATTCTGATAAAATTCAGCAAGATTCTTCTTTCAGAACAAACAGAGTAAAC ctg16306 4
101408 I S AGGTGGAATCAAAGCAGCCTATGTCTCTGAACCAA
101408 P A S CGCGCCGAGGTTTTCATTCTTCCAGACCTACY
101408 P G S ATGACGTGGCAGACCTTCATTCTTCCAGACCTACY
101408 T A S TCACGTAGGTCTGGAAGAATGAAAATGGTTCAGAGACATAGGCTGCTTTGATTCCACCTCT
101408 T G S TCACGTAGGTCTGGAAGAATGAAAGTGGTTCAGAGACATAGGCTGCTTTGATTCCACCTCT

101408 IS [AG] TTCCTGCATAAGTAAACTGCTCATAAAGCGTGGTATTCACGTAGGTCTGGAAGAATGAAA[AG]TGGTTCAGAGACATAGGCTGCTTTGATTCCACCTCTGCCAGCGGCAGTTACAGCAATACC ctg19247 7
101428 I A AGCATTGTGGTTTTTATTATGTAAATCCAGCTCATTCTCTCAGCAAATACAGA
101428 P T A CGCGCCGAGGTGTCCTATCTCTGTGTATTTTATTAY
101428 P C A ATGACGTGGCAGACCGTCCTATCTCTGTGTATTTTATY
101428 T T A TTATTAATAAAATACACAGAGATAGGACACTGTATTTGCTGAGAGAATGAGCTGGATTTACATAATAAAAACGACAATGCTAT
101428 T C A TTATTAATAAAATACACAGAGATAGGACGCTGTATTTGCTGAGAGAATGAGCTGGATTTACATAATAAAAACGACAATGCTAT

101428 IS [TC] TTTCAAATAGCATTGTCGTTTTTATTATGTAAATCCAGCTCATTCTCTCAGCAAATACAG[TC]GTCTATCTCTGTGTATTTTATTAATAAAATACAGATTTTTAGATGTTCTCCAGCCAATT ctg14493 3
101448 I A AGCGCAAGTAAAAGGAATTCCCACCCCCAT
101448 P G A ATGACGTGGCAGACGGTACACACAGAAATTATTCCTTCY
101448 P C A CGCGCCGAGGCGTACACACAGAAATTATTCCTTCY
101448 T G A TATGGAAGCAATAATTTCTGTGTACCTGGGGGTGGGAATTCCTTTTACTTGCGCTCG
101448 T C A TATGGAAGCAATAATTTCTGTGTACGTGGGGGTGGGAATTCCTTTTACTTGCGCTCG

FIGURE 129G

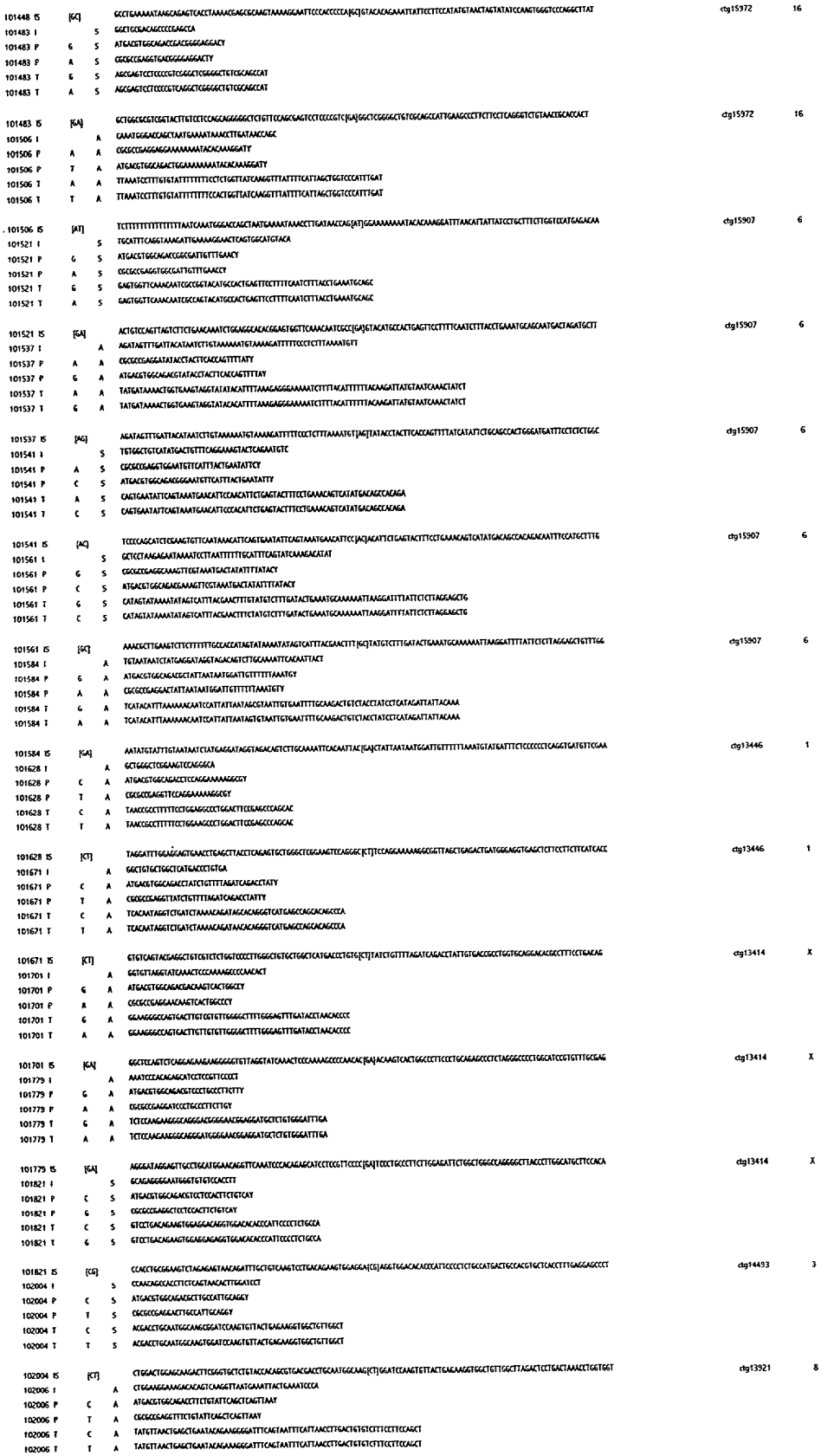
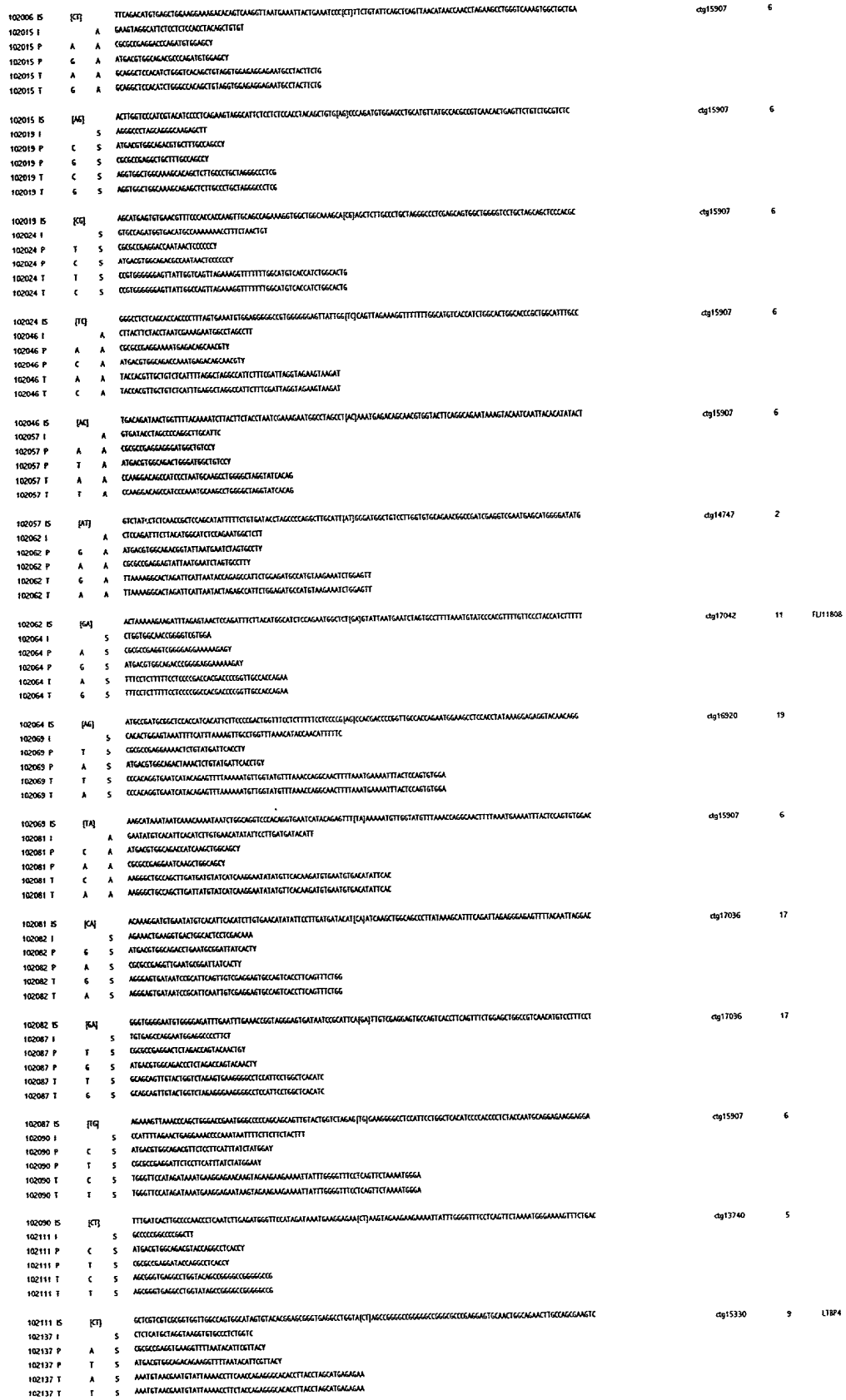
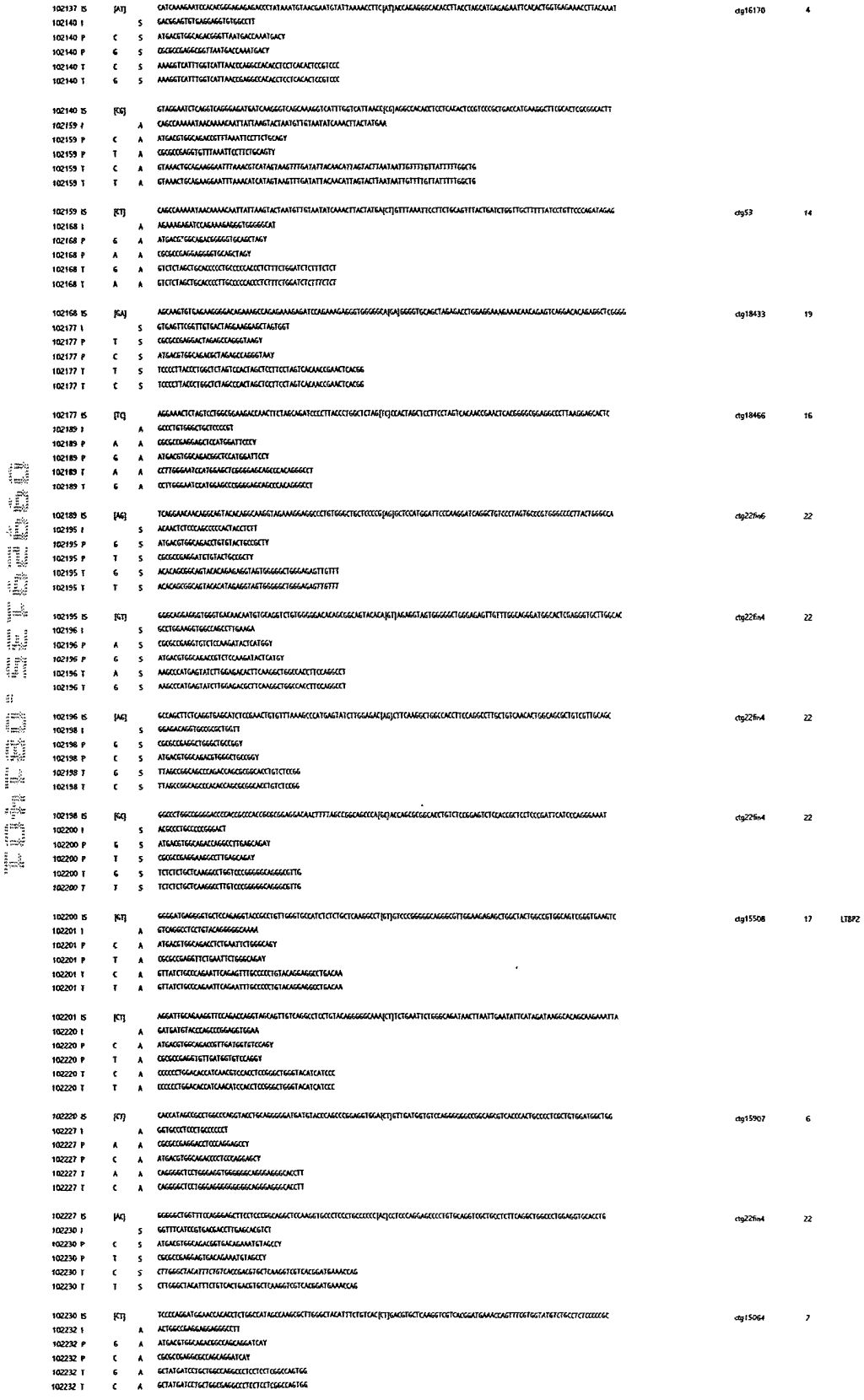


FIGURE 129G


102006 IS [CT] TTCAGACATGTGAGCTGGAAGGAAAGACACAGTCAAGGTTAATCAAATTACTCAAATCCC[CT]TCTGTATTCAGCTCAGTTAACATAACCAACCTAGAAGCCTGGGTCAAAGTGGCTGCTGA ctg15907 6
102015 I A GAAGTAGGCATTCTCCTCTCCACCTACAGCTGTGT
102015 P A A CGCGCCGCAGGACCCAGATGTGGAGCY
102015 P G A ATGACGTGGCAGACGCCCAGATGTGGAGCY
102015 T A A GCAGGCTCCACATCTGGGCCACAGCTGTAGGTGGAGAGGAGAATGCCTACTTCTG
102015 T G A GCAGGCTCCACATCTGGGCCACAGCTGTAGGTGGAGAGGAGAATGCCTACTTCTG
102015 IS [AG] ACTTGGTCCCATCGTACATCCCCTCAGAAGTAGGCATTCTCCTCTCCACCTACAGCTGTG[AG]CCCAGATGTGGAGCCTGCATGTTATGCCACGCCGTCAACACTGAGTTCTGTCTGCGTCTC ctg15907 6
102019 I S AGGGCCCTAGCAGGGCCAAGAGCTT
102019 P C S ATGACGTGGCAGACGTGCTTTGCCAGCCY
102019 P G S CGCGCCCAGGCTGCTTTGCCAGCCY
102019 T C S AGGTGGCTGGCAAAGCAGAGCTCTTGCCCTGCTAGGGCCCTCG
102019 T G S AGGTGGCTGGCAAAGCAGAGCTCTTGCCCTGCTAGGGCCCTCG
102019 IS [CG] AGCATGAGTGTGAACGTTTCCCACCACCAAGTTGCAGCCAGAAAGGTGGCTGGCAAAGCA[CG]AGCTCTTGCCCTGCTAGGGCCCTCGAGCAGTGGCTGGGGTCCTGCTAGCAGCTCCCACGC ctg15907 6
102024 I S GTGCCAGATGGTGACATGCCAAAAAAACCTTTCTAACTGT
102024 P T S CGCGCCCAGGACCAATAACTCCCCCCY
102024 P C S ATGACGTGGCAGACGCCAATAACTCCCCCCY
102024 T T S CCGTGGGGGGAGTTATTGGTCAGTTAGAAAGGTTTTTTTGGCATGTCACCATCTGGCACTG
102024 T C S CCGTGGGGGGAGTTATTGGCCAGTTAGAAAGGTTTTTTTGGCATGTCACCATCTGGCACTG
102024 IS [TC] GGGCCTCTCAGCACCACCCCTTTAGTGAAATGTGGAGGGGGCCGTGGGGGGAGTTATTGG[TC]CAGTTAGAAAGGTTTTTTTGGCATGTCACCATCTGGCACTGGCACCCGCTGGCATTTGCC ctg15907 6
102046 I A CTTACTTCTACCTAATCGAAAGAATGGCCTAGCCTT
102046 P A A CGCGCCCAGGAAAATGAGACAGCAACGTY
102046 P C A ATGACGTGGCAGACCAAATGAGACAGCAACGTY
102046 T A A TACCACGTTGCTGTCTCATTTTAGGCTAGGCCATTCTTTCGATTAGGTAGAAGTAAGAT
102046 T C A TACCACGTTGCTGTCTCATTTGAGGCTAGGCCATTCTTTCGATTAGGTAGAAGTAAGAT
102046 IS [AC] TGACAGATAACTGGTTTTACAAAATCTTACTTCTACCTAATCGAAAGAATGGCCTAGCCT[AC]AAATGAGACAGCAACGTGGTACTTCAGGCAGAATAAAGTACAATCAATTACACATATACT ctg15907 6
102057 I A GTGATACCTAGCCCCAGGCTTGCATTC
102057 P A A CGCGCCGAGGAGGGATGGCTGTCCY
102057 P T A ATGACGTGGCAGACTGGGATGGCTGTCCY
102057 T A A CCAAGGACAGCCATCCCTAATGCAAGCCTGGGGCTAGGTATCACAG
102057 T T A CCAAGGACAGCCATCCCAAATGCAAGCCTGGGGCTAGGTATCACAG
102057 IS [AT] GTCTAT-CTCTCAACCGCTCCAGCATATTTTTCTGTGATACCTAGCCCCAGGCTTGCATT[AT]GGGATGGCTGTCCTTGGTGTGCAGAACGGCCGATCGAGGTCGAATGAGCATGGGGATATG ctg14747 2
102062 I A CTCCAGATTTCTTACATGGCATCTCCAGAATGGCTCTT
102062 P G A ATGACGTGGCAGACGGTATTAATGAATCTAGTGCCTY
102062 P A A CGCGCCGAGGAGTATTAATGAATCTAGTGCCTTY
102062 T G A TTAAAAGGCACTAGATTCATTAATACCAGAGCCATTCTGGAGATGCCATGTAAGAAATCTGGAGTT
102062 T A A TTAAAAGGCACTAGATTCATTAATACTAGAGCCATTCTGGAGATGCCATGTAAGAAATCTGGAGTT
102062 IS [GA] ACTAAAAAGAAGATTTAGAGTAACTCCAGATTTCTTACATGGCATCTCCAGAATGGCTCT[GA]GTATTAATGAATCTAGTGCCTTTTAAATGTATCCCACGTTTTGTTCCCTACCATCTTTTT ctg17042 11 FLJ11808
102064 I S CTGGTGGGCAACCGGGGTGTGGA
102064 P A S CGCGCCGAGGTCGGGGAGGAAAAAGAGY
102064 P G S ATGACGTGGCAGACCCGGGGAGGAAAAAGAY
102064 T A S TTTCCTCTTTTCCTCCCCGACCAGACCCCGGTTGCCACCAGAA
102064 T G S TTTCCTCTTTTCCTCCCCGGCCACGACCCCGGTTGCCACCAGAA
102064 IS [AG] ATGCCGATGCGGCTCCACCATCACATTCTTCCCCGACTGGTTTCCTCTTTTCCTCCCCG[AG]CCACGACCCCGGTTGCCACCAGAATGGAAGCCTCCACCTATAAAGCAGAGGTACAACAGG ctg16920 19
102069 I S CACACTGGAGTAAATTTTCATTTAAAAGTTGCCTGGTTTAAACATACCAACATTTTTC
102069 P T S CGCGCCGAGGAAAACTCTGTATGATTCACCTY
102069 P A S ATGACGTGGCAGACTAACTCTGTATGATTCACCTGY
102069 T T S CCCACAGGTGAATCATACAGAGTTTTAAAAATGTTGGTATGTTTAAACCAGGCAACTTTTAAATGAAAATTTACTCCAGTGTGGA
102069 T A S CCCACAGGTGAATCATACAGAGTTTAAAAATGTTGGTATGTTTAAACCAGGCAACTTTTAAATGAAAATTTACTCCAGTGTGGA
102069 IS [TA] AAGCATAAATAATCAAACAAATAAATCTGGCAGGTCCCACAGGTGAATCATACAGAGTTT[TA]AAAAATGTTGGTATGTTTAAACCAGGCAACTTTTAAATGAAAATTTACTCCAGTGTGGAC ctg15907 6
102081 I A GAATATGTCACATTCACATCTTGTGAACATATATTCCTTGATGATACATT
102081 P C A ATGACGTGGCAGACATCAAGCTGGCAGCY
102081 P A A CGCGCCCAGGAATCAAGCTGGCAGCY
102081 T C A AAGGGCTGCCAGCTTGATGATGTATCATCAAGGAATATATGTTCACAAGATGTGAATGTGACATATTCAC
102081 T A A AAGGGCTGCCAGCTTGATTATGTATCATCAAGGAATATATGTTCACAAGATGTGAATGTGACATATTCAC
102081 IS [CA] ACAAAGGATGTGAATATGTCACATTCACATCTTGTGAACATATATTCCTTGATGATACAT[CA]ATCAAGCTGGCAGCCCTTATAAAGCATTTCAGATTAGAGGGAGAGTTTTACAATTAGGAC ctg17036 17
102082 I S AGAAACTGAAGGTGACTGGCACTCCTCGACAAA
102082 P G S ATGACGTGGCAGACCTGAATGCGGATTATCACTY
102082 P A S CGCGCCCAGGTTGAATGCGGATTATCACTY
102082 T G S AGGGAGTGATAATCCGCATTCAATTGTCGAGGAGTGCCAGTCACCTTCAGTTTCTGG
102082 T A S AGGGAGTGATAATCCGCATTCAATTGTCGAGGAGTGCCAGTCACCTTCAGTTTCTGG
102082 IS [GA] GGGTGGGGAATGTGGGGAGATTTGAATTTGAAACCGGTAGGGAGTGATAATCCGCATTCA[GA]TTGTGGAGGAGTGCCAGTCACCTTCAGTTTCTGGAGCTGGCCGTCAACATGTCCTTTCCT ctg17036 17
102087 I S TGTGAGCCAGGAATGGAGGCCCCTTCT
102087 P T S CGCGCCGAGGACTCTAGACCAGTACAACTGY
102087 P G S ATGACGTGGCAGACCCTCTAGACCAGTACAACTY
102087 T T S GCAGCAGTTGTACTGGTCTAGAGTGAAGGGGCCTCCATTCCTGGCTCACATC
102087 T G S GCAGCAGTTGTACTGGTCTAGAGGGAAGGGGCCTCCATTCCTGGCTCACATC
102087 IS [TG] AGAAAGTTAAACCCAGCTGGGACCGAATGGGCCCCCAGCAGCAGTTGTACTGGTCTAGAG[TG]GAAGGGGCCTCCATTCCTGGCTCACATCCCCACCCCTCTACCAATGCAGGAGAAGGAGGA ctg15907 6
102090 I S CCATTTTAGAACTGAGGAAACCCCAAATAATTTCTTCTTCTACTTT
102090 P C S ATGACGTGGCAGACGTTCTCCTTCATTTATCTATGGAY
102090 P T S CGCGCCGAGGATTCTCCTTCATTTATCTATGGAAY
102090 T C S TGGGTTCCATAGATAAATGAAGGAGAACAAGTAGAAGAAGAAAATTATTTGGGGTTTCCTCAGTTCTAAAATGGGA
102090 T T S TGGGTTCCATAGATAAATGAAGGAGAATAAGTAGAAGAAGAAAATTATTTGGGGTTTCCTCAGTTCTAAAATGGGA
102090 IS [CT] TTTGATCACTTGCCCCAACCCTCAATCTTGAGATGGGTTCCATAGATAAATGAAGGAGAA[CT]AAGTAGAAGAAGAAAATTATTTGGGGTTTCCTCAGTTCTAAAATGGGAAAAGTTTCTGAC ctg13740 5
102111 I S GCCCCCGGCCCCGGCTT
102111 P C S ATGACGTGGCAGACGTACCAGGCCTCACCY
102111 P T S CGCGCCGAGGATACCAGGCCTCACCY
102111 T C S AGCGGGTGAGGCCTGGTACAGCCGGGGCCGGGGGCCG
102111 T T S AGCGGGTGAGGCCTGGTATAGCCGGGGCCGGGGGCCG
102111 IS [CT] GCTCGTCGTCGCGGTGGTTGGCCAGTGGCATAGTGTACACGGAGCGGGTGAGGCCTGGTA[CT]AGCCGGGGCCGGGGGCCGGGCGCCCGAGGAGTGCAACTGGCAGACAACTTGCCAGCGAAGTC ctg15330 9 LTBP4
102137 I S CTCTCATGCTAGGTAAGGTGTGCCCTCTGGTC
102137 P A S CGCGCCCAAGGTGAAGGTTTTAATACATTCGTTACY
102137 P T S ATGACGTGGCAGACAGAAGGTTTTAATACATTCGTTACY
102137 T A S AAATGTAACGAATGTATTAAAACCTTCAACCAGAGGGCACACCTTACCTAGCATGAGAGAA
102137 T T S AAATGTAACGAATGTATTAAAACCTTCTACCACAGAGGGCACACCTTACCTAGCATGAGAGAA



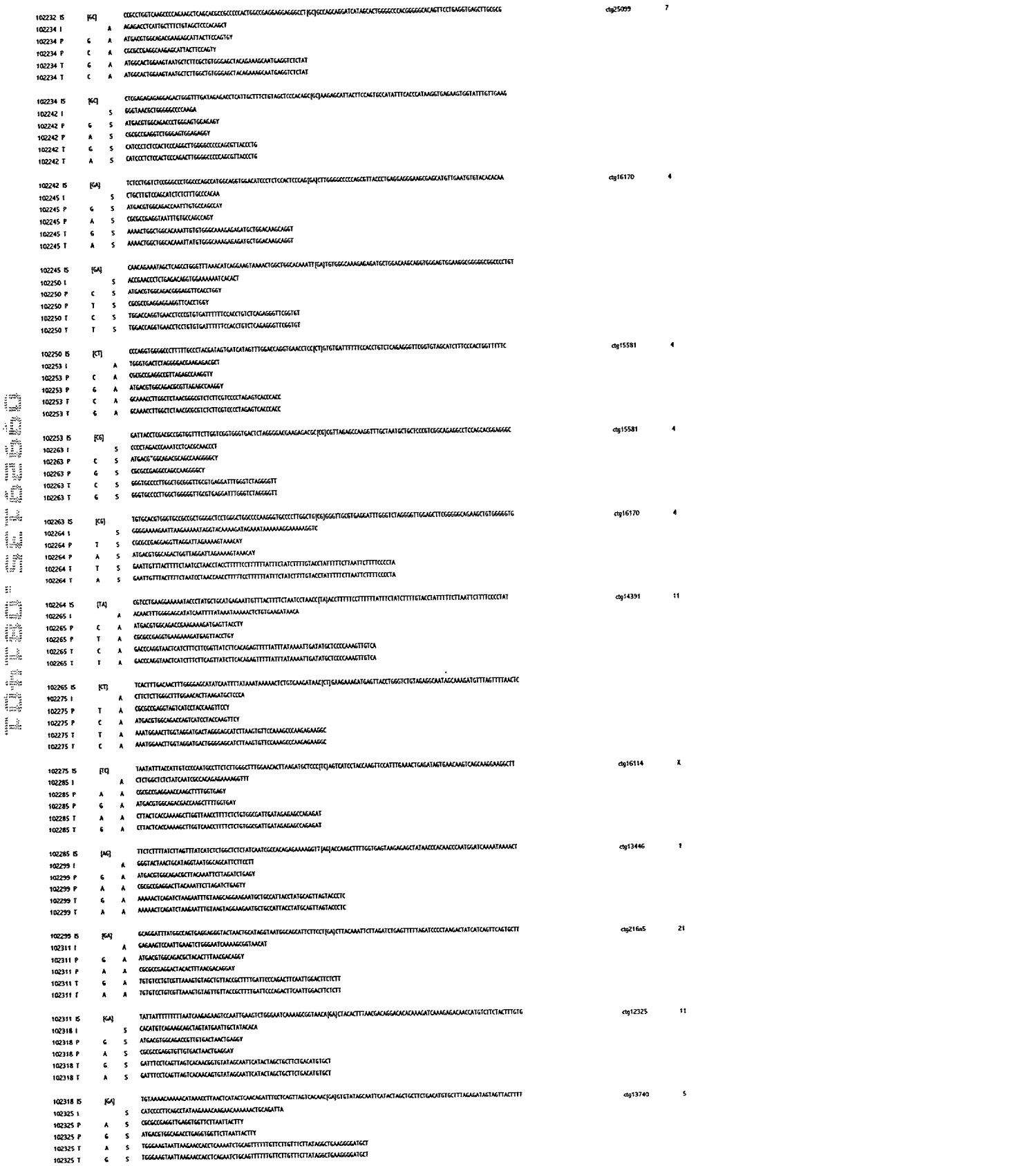

102232 IS [GC] CCGCCTGGTCAAGCCCCAGAAGCTCAGCAGCGCCGCCCCCACTGGCCGAGGAGGAGGGCCT[GC]GCCAGCAGGATCATAGCACTGGGGCCCACGGGGGCACAGTTCCTGAGGTGAGCTTGCGCG ctg25099 7
102234 I A ACAGACCTCATTGCTTTCTGTAGCTCCCACAGCT
102234 P G A ATGACGTGGCAGACGAAGAGCATTACTTCCAGTGT
102234 P C A CGCGCCGAGGCAAGAGCATTACTTCCAGTY
102234 T G A ATGGCACTGGAAGTAATGCTCTTCGCTGTGGGGAGCTACAGAAAGCAATGAGGTCTCTAT
102234 T C A ATGGCACTGGAAGTAATGCTCTTGGCTGTGGGAGCTACAGAAAGCAATGAGGTCTCTAT
102234 IS [GC] CTCGAGAGAGAGGCACACTGGGTTTGATAGACAGACCTCATTGCTTTCTGTAGCTCCCACAGC[GC]AAGAGCATTACTTCCAGTGCCATATTTCACCCATAAGGTGAGAAGTGGTATTTGTTGAAG
102242 I S GGGTAACGCTGGGGGGCCCAAGA
102242 P G S ATGACGTGGCAGACCCTGGGAGTGGAGAGY
102242 P A S CGCGCCGAGGTCTGGGAGTGGAGAGGY
102242 T G S CATCCCTCTCCACTCCCAGGCTTGGGGCCCCCAGGCTTACCCTG
102242 T A S CATCCCTCTCCACTCCCAGACTTGGGGCCCCCAGCGTTACCCTG
102242 IS [GA] TCTCCTGGTCTCCGGGGCCCTGGCCCAGCCATGGCAGGTGGACATCCCTCTCCACTCCCAG[GA]CTTGGGGCCCCCAGCGTTACCCTGAGGAGGGAAGCGAGCATGTTGAATGTGTACACACAA ctg16170 4
102245 I S CTGCTTGTCCAGCATCTCTCTTTGCCCACAA
102245 P G S ATGACGTGGCAGACCAATTTGTGCCAGCCAY
102245 P A S CGCGCCGAGGTAATTTGTGCCAGCCAGY
102245 T G S AAAACTGGCTGGCACAAATTGTGTGGGCAAAGAGAGATGCTGGACAAGCAGGT
102245 T A S AAAACTGGCTGGCACAAATTATGTGGGCAAAGAGAGATGCTGGACAAGCAGGT
102245 IS [GA] CAACAGAAATAGCTCAGCCTGGGTTTAAACATCAGGAAGTAAAACTGGCTGGCACAAATT[GA]TGTGGGCAAAGAGAGATGCTGGACAAGCAGGTGGGAGTGGAAGGCGGGGGCGGCCCTGT
102250 I S ACCGAACCCTCTGAGACAGGTGGAAAAAATCACACT
102250 P C S ATGACGTGGCAGACGGGAGGTTCACCTGGY
102250 P T S CGGCCCGAGGAGGAGGTTCACCTGGY
102250 T C S TGGACCAGGTGAACCTCCCGTGTGATTTTTTCCACCTGTCTCAGAGGGTTCGGTGT
102250 T T S TGGACCAGGTGAACCTCCTGTGTGATTTTTTCCACCTGTCTCAGAGGGTTCGGTGT
102250 IS [CT] CCCAGGTGGGGCCCTTTTGCCCTACGATAGTGATCATAGTTGGACCAGGTGAACCTCC[CT]GTGTGATTTTTCCACCTGTCTCAGAGGGTTCGGTGTAGCATCTTTCCCACTGGTTTTC ctg15581 4
102253 I A TGGGTGACTCTAGGGGACGAAGAGACGCT
102253 P C A CGGCCCGAGGCCGTTAGAGCCAAGGTY
102253 P G A ATGACGTGGCAGACGCGTTAGAGCCAAGGY
102253 T C A GCAAACCTTGGCTCTAACGGGCGTCTCTTCGTCCCCTAGAGTCACCCACC
102253 T G A GCAAACCTTGGCTCTAACGGCGTCTCTTCGTCCCCTAGAGTCACCCACC
102253 IS [CG] GATTACCTCGACGCCGGTGGTTTCTTGGTCGGTGGGTGACTCTAGGGGACGAAGAGACGC[CG]CGTTAGAGCCAAGGTTTGCTAATGCTGCTCCCGTCGGACGAGGCCTCCAGCACGGAGGGC ctg15581 4
102263 I S CCCCTAGACCCAAATCCTCAGCAACCCT
102263 P C S ATGACG"GGCAGACGCAGCCAAGGGGCY
102263 P G S CGCGCCGAGGCCAGCCAAGGGGCY
102263 T C S GGGTGCCCCTTGGCTGGGGGTTGCGTGAGGATTTGGGTCTAGGGGTT
102263 T G S GGGTGCCCCTTGGCTGGGGGTTGCGTGAGGATTTGGGTCTAGGGGTT
102263 IS [CG] TGTGCACGTGGGTGCCGCCGCTGGGGCTCCTGGGCTGGCCCCAAGGGTGCCCCTTGGCTG[CG]GGGTTGCGTGAGGATTTGGGTCTAGGGGTTGGAGCTTCGGGGGCAGAAGCTGTGGGGGTG ctg16170 4
102264 I S GGGGAAAAGAATTAAGAAAAATAGGTACAAAAGATAGAAATAAAAAAGGAAAAAGGTC
102264 P T S CGGCCCGAGGAGGTTAGGATTAGAAAAGTAAACAY
102264 P A S ATGACGTGGCAGACTGGTTAGGATTAGAAAAGTAAACAY
102264 T T S GAATTGTTTACTTTTCTAATCCTAACCTACCTTTTTCCCTTTTTATTTCTATCTTTTGTACCTATTTTTCTTAATTCTTTCCCCTA
102264 T A S GAATTGTTTACTTTTCTAATCCTAACCAACCTTTTTCCTTTTTTATTTCTATCTTTTGTACCTATTTTTCTTAATTCTTTCCCCTA
102264 IS [TA] CGTCCTGAAGGAAAAATACCCTATGCTGCATGAGAATTGTTTACTTTTCTAATCCTAACC[TA]ACCTTTTTCCTTTTTTATTTCTATCTTTTGTACCTATTTTTCTTAATTCTTTCCCCTAT ctg14391 11
102265 I A ACAACTTTGGGCAGCATATCAATTTTATAAATAAAAACTCTGTGAAGATAACA
102265 P C A ATGACGTGGCAGACCGAAGAAAGATGAGTTACCTY
102265 P T A CGCGCCGAGGTGAAGAAAGATGAGTTACCTGY
102265 T C A GACCCAGGTAACTCATCTTTCTTCGGTTATCTTCACAGAGTTTTTATTTATAAAATTGATATGCTCCCCAAAGTTGTCA
102265 T T A GACCCAGGTAACTCATCTTTCTTCAGTTATCTTCACAGAGTTTTATTTATAAAATTGATATGCTCCCCAAAGTTGTCA
102265 IS [CT] TCACTTTGACAACTTTGGGGAGCATATCAATTTTATAAATAAAAACTCTGTGAAGATAAC[CT]GAAGAAAGATGAGTTACCTGGGTCTGTAGAGGCAATAGCAAAGATGTTTAGTTTTAACTC
102275 I A CTTCTCTTGGGCTTTGGAACACTTAAGATGCTCCCA
102275 P T A CGCGCCGAGGTAGTCATCCTACCAAGTTCCY
102275 P C A ATGACGTGGCAGACCAGTCATCCTACCAAGTTCY
102275 T T A AAATGGAACTTGGTAGGATGACTAGGGAGCATCTTAAGTGTTCCAAAGCCCAAGAGAAGGC
102275 T C A AAATGGAACTTGGTAGGATGACTGGGGAGCATCTTAAGTGTTCCAAAGCCCAAGAGAAGGC
102275 IS [TC] TAATATTTACCATTGTCCCCAATGCCTTCTCTTGGGCTTTGGAACACTTAAGATGCTCCCC[TC]AGTCATCCTACCAAGTTCCATTTGAAACTGAGATAGTGAACAAGTCAGCAAGGAAGGCTT ctg16114 X
102285 I A CTCTGGCTCTCTATCAATCGCCAACAGAGAAAAGGTTT
102285 P A A CGCGCCGAGGAACCAAGCTTTTGGTGAGY
102285 P G A ATGACGTGGCAGACGACCAAGCTTTTGGTGAY
102285 T A A CTTACTCACCAAAAGCTTGGTTAACCTTTTCTCTGTGGCGATTGATAGAGAGCCAGAGAT
102285 T G A CTTACTCACCAAAAGCTTGGTCAACCTTTTCTCTGTGGCGATTGATAGAGAGCCAGAGAT
102285 IS [AG] TTCTCTTTATCTTAGTTTATCATCTCTGGCTCTCTATCAATCGCCACAGAGAAAAGGTT[AG]ACCAAGCTTTTGGTGAGTAAGAGAGCTATAACCCACAACCCAATGGATCAAAATAAAACT ctg13446 1
102299 I A GGGTACTAACTGCATAGGTAATGGCAGCATTCTTCCTT
102299 P G A ATGACGTGGCAGACGCTACAAATTCTTAGATCTGAGY
102299 P A A CGCGCCGAGGACTTACAAATTCTTAGATCTGAGY
102299 T G A AAAAACTCAGATCTAAGAATTTGTAAGCAGGAAGAATGCTGCCATTACCTATGCAGTTAGTACCCTC
102299 T A A AAAAACTCAGATCTAAGAATTTGTAAGTAGGAAGAATGCTGCCATTACCTATGCAGTTAGTACCCTC
102299 IS [GA] GCAGGATTTATGGCCACTGAGGAGGGTACTAACTGCATAGGTAATGGCAGCATTCTTCCT[GA]CTTACAAATTCTTAGATCTGAGTTTTAGATCCCCTAAGACTATCATCAGTTCAGTGCTT ctg216a5 21
102311 I A GAGAAGTCCAATTGAAGTCTGGGAATCAAAAGCGGTAACAT
102311 P G A ATGACGTGGCAGACGCTACACTTTAACGACAGGY
102311 P A A CGCGCCGAGGACTACACTTTAACGACAGGAY
102311 T G A TGTGTCCTGTGTTAAAGTGTAGCTGTTACCGCTTTTGATTCCCAGACTTCAATTGGACTTCTCTT
102311 T A A TGTGTCCTGTGTTAAAGTGTAGTTGTTACCGCTTTTGATTCCCAGACTTCAATTGGACTTCTCTT
102311 IS [GA] TATTATTTTTTTTTAATCAAGAGAAGTCCAATTGAAGTCTGGGAATCAAAAGCGGTAACA[GA]CTACACTTTAACGACAGGACACACAAAGATCAAAGAGACAACCATGTCTTCTACTTTGTG ctg12325 11
102318 I S CACATGTCAGAAGCAGCTAGTATGAATTGCTATACACA
102318 P G S ATGACGTGGCAGACCGTTGTGACTAACTGAGGAY
102318 P A S CGCGCCGAGGTGTTGTGACTAACTGAGGAY
102318 T G S GATTTCCTCAGTTAGTCACAACGGTGTATAGCAATTCATACTAGCTGCTTCTGACATGTGCT
102318 T A S GATTTCCTCAGTTAGTCACAACAGTGTATAGCAATTCATACTAGCTGCTTCTGACATGTGCT
102318 IS [GA] TGTAAAACAAAAACATAAAACTTAACTCATACTCAACAGATTTGCTCAGTTAGTCACAAC[GA]GTGTATAGCAATTCATACTAGCTGCTTCTGACATGTGCTTTAGAGATAGTAGTTACTTTT ctg13740 5
102325 I S CATCCCCTTCAGCCTATAAGAAACAAGAACAAAAAACTGCAGATTA
102325 P A S CGCGCCGAGGTTGAGGTGGTTCTTAATTACTTY
102325 P G S ATGACGTGGCAGACCTGAGGTGGTTCTTAATTACTTY
102325 T A S TGGGAAGTAATTAAGAACCACCTCAAAATCTGCAGTTTTTTGTTCTTGTTTCTTATAGGCTGAAGGGGATGCT
102325 T G S TGGGAAGTAATTAAGAACCACCTCAGAATCTGCAGTTTTTTGTTCTTGTTTCTTATAGGCTGAAGGGGATGCT

FIGURE 129G

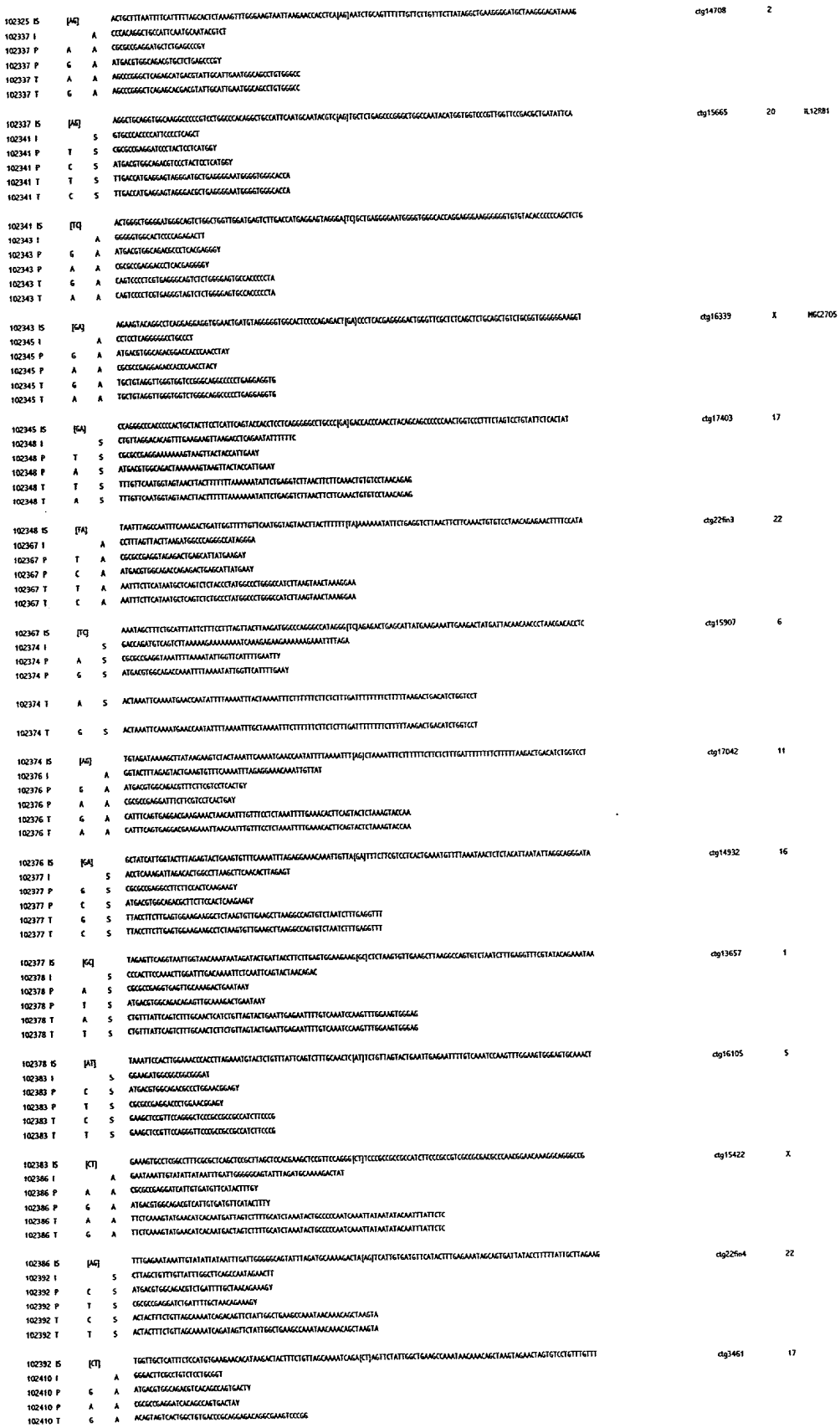

102325 IS [AG] ACTGCTTAATTTTCATTTTTAGCACTCTAAAGTTTGGGAAGTAATTAAGAACCACCTCA[AG]AATCTGCAGTTTTTTGTTCTTGTTTCTTATAGGCTGAAGGGGATGCTAAGGGAGATAAAG ctg14708 2
102337 I A CCCACAGGCTGCCATTCAATGCAATACGTCT
102337 P A A CGCGCCGAGGATGCTCTGAGCCCGY
102337 P G A ATGACGTGGCAGACGTGCTCTGAGCCCGY
102337 T A A AGCCCGGGCTCAGAGCATGACGTATTGCATTGAATGGCAGCCTGTGGGCC
102337 T G A AGCCCGGGCTCAGAGCACGACGTATTGCATTGAATGGCAGCCTGTGGGCC
102337 IS [AG] AGGCTGCAGGTGGCAAGGCCCCCGTCCTGGCCCACAGGCTGCCATTCAATGCAATACGTC[AG]TGCTCTGAGCCCGGGCTGGCCAATACATGGTGGTCCCGTTGGTTCCGACGCTGATATTCA ctg15665 20 IL12RB1
102341 I S GTGCCCACCCCATTCCCCTCAGCT
102341 P T S CGCGCCGAGGATCCCTACTCCTCATGGY
102341 P C S ATGACGTGGCAGAGCTCCCTACTCCTCATGGY
102341 T T S TTGACCATGAGGAGTAGGGATGCTGAGGGGAATGGGGTGGGGCACCA
102341 T C S TTGACCATGAGGAGTAGGGACGCTGAGGGGAATGGGGTGGGGCACCA
102341 IS [TC] ACTGGGCTGGGGATGGGCAGTCTGGCTGGTTGGATGAGTCTTGACCATGAGGAGTAGGGA[TC]GCTGAGGGGAATGGGGTGGGCACCAGGAGGGAAGGGGGGTGTGTACACCCCCAGCTCTG
102343 I A GGGGCTGGCACTCCCCAGAGACTT
102343 P G A ATGACGTGGCAGAGCCCTCACGAGGGY
102343 P A A CGCGCCGAGGACCCTCACGAGGGGY
102343 T G A CAGTCCCCTCGTGAGGGCAGTCTCTGGGGAGTGCCACCCCCTA
102343 T A A CAGTCCCCTCGTGAGGGTAGTCTCTGGGGAGTGCCACCCCCTA
102343 IS [GA] AGAAGTACAGGCCTCAGGAGAGAGGTGGAACTGATGTAGGGGGTGGCACTCCCCAGAGACT[GA]CCCTCACGAGGGGACTGGGTTCGCTCTCAGCTCTGCAGCTGTCTGCGGGTGGGGGGAAGGT ctg16339 X MGC2705
102345 I A CCTCCTCAGGGGGCCTGCCCT
102345 P G A ATGACGTGGCAGACGGACCACCCAACCTAY
102345 P A A CGCGCCGAGGAGACCACCCAACCTACY
102345 T G A TGCTGTAGGTTGGGTGGTCTGGGCAGGCCCCCTGAGGAGGTG
102345 T A A TGCTGTAGGTTGGGTGGTCTGGGCAGGCCCCCTGAGGAGGTG
102345 IS [GA] CCAGGGCCCACCCCCACTGCTACTTCCTCATTCAGTACCACCTCCTCAGGGGGCCTGCCC[GA]GACCACCCAACCTACAGCAGCCCCCCAACTGGTCCCTTTCTAGTCCTGTATTCTCACTAT ctg17403 17
102348 I S CTGTTAGGACACAGTTTCAAGAAGTTAAGAGCTCAGAATATTTTTTC
102348 P T S CGCGCCGAGGAAAAAAAGTAAGTTACTACCATTGAAY
102348 P A S ATGACGTGGCAGACTAAAAAAGTAAGTTACTACCATTGAAY
102348 T T S TTTGTTCAATGGTAGTAACTTACTTTTTTTAAAAAATATTCTGAGGTCTTAACTTCTTCAAACTGTGTCCTAACAGAG
102348 T A S TTTGTTCAATGGTAGTAACTTACTTTTTTAAAAAATATTCTGAGGTCTTAACTTCTTCAAACTGTGTCCTAACAGAG
102348 IS [TA] TAATTTAGCCAATTTCAAAGACTGATTGGTTTTTGTTCAATGGTAGTAACTTACTTTTTT[TA]AAAAAAATATTCTGAGGTCTTAACTTCTTCAAACTGTGTCCTAACAGAGAACTTTTCCATA ctg22fin3 22
102367 I A CCTTTAGTTACTTAAGATGGCCCAGGGCCATAGGGA
102367 P T A CGCGCCGAGGTAGAGACTGAGCATTATGAAGAY
102367 P C A ATGACGTGGCAGACGAGACTGAGCATTATGAAGAY
102367 T T A AATTTCTTCATAATGCTCAGTCTCTCACCCTATGGGCCTGGGGCCATCTTAAGTAACTAAAGGAA
102367 T C A AATTTCTTCATAATGCTCAGTCTCTGCCCTATGGGCCTGGGGCCATCTTAAGTAACTAAAGGAA
102367 IS [TC] AAATAGCTTTCTGCATTTATTCTTTCCTTTAGTTACTTAAGATGGCCCAGGGCCATAGGG[TC]AGAGACTGAGCATTATGAATAACAACAACCCTAACGACACCTC ctg15907 6
102374 I S GACCAGATGTCAGTCTTAAAAAGAAAAAAATCAAAGAGAAGAAAAAGAAATTTTAGA
102374 P A S CGCGCCGAGGTAAATTTTAAAATATTGGTTCATTTTGAATTY
102374 P G S ATGACGTGGCAGACCAAATTTTAAAATATTGGTTCATTTTGAATY
102374 T A S ACTAAATTCAAAATGAACCAATATTTTAAAATTTACTAAAATTTCTTTTTTCTTCTCTTTGATTTTTTTTCTTTTTAAGACTGACATCTGGTCCT
102374 T G S ACTAAATTCAAAATGAACCAATATTTTAAAATTTGCTAAAATTTCTTTTTTCTTCTCTTTGATTTTTTTTCTTTTTAAGACTGACATCTGGTCCT
102374 IS [AG] TGTAGATAAAAGCTATAAGAAGTCTACTAAATTCAAAATCAACCAATATTTTAAAATTT[AG]CTAAAATTTCTTTTTTCTTCTCTTTGATTTTTTTTCTTTTTAAGACTGACATCTGGTCCT ctg17042 11
102376 I A GGTACTTTAGAGTACTGAAGTGTTTCAAAATTTAGAGGAAACAAATTGTTAT
102376 P G A ATGACGTGGCAGACGTTTCTTCGTCCTCACTGY
102376 P A A CGCGCCGAGGAATTTCTTCGTCCTCACTGAY
102376 T G A CATTTCAGTGAGGACGAAGAAACTAACAATTTGTTTCCTCTAAATTTTGAAACACTTCAGTACTCTAAAGTACCAA
102376 T A A CATTTCAGTGAGGACGAAGAAATTAACAATTTGTTTCCTCTAAATTTTGAAACACTTCAGTACTCTAAAGTACCAA
102376 IS [GA] GCTATCATTGGTACTTTAGAGTACTGAAGTGTTTCAAAATTTAGAGGAAACAAATTGTTA[GA]TTTCTTCGTCCTCACTGAAATGTTTTAAATAACTCTCTACATTAATATTAGGCAGGGATA ctg14932 16
102377 I S AGCTCAAAGATTAGACACTGGCCTTAAGCTTCAACACTTAGAGT
102377 P G S CGCGCCGAGGCCTTCTTCCACTCAAGAAGY
102377 P C S ATGACGTGGCAGAGCCTTCTTCCACTCAAGAAGY
102377 T G S TTACCTTCTTGAGTGGAAGAAGGCTCTAAGTGTTGAAGCTTAAGGCCAGTGTCTAATCTTTGAGGTTT
102377 T C S TTACCTTCTTGAGTGGAAGAAGCCTCTAAGTGTTGAAGCTTAAGGCCAGTGTCTAATCTTTGAGGTTT
102377 IS [GC] TAGAGTTCAGGTAATTGGTAACAAATAATAGATACTGATTACCTTCTTGAGTGGAAGAAG[GC]CTCTAAGTGTTGAAGCTTAAGCCCAGTGTCTAATCTTTGAGGTTTCGTATACAGAAATAA ctg13657 1
102378 I S CCCACTTCCAAACTTGGATTTGACAAAATTCTCAATTCAGTACTAACAGAC
102378 P A S CGCGCCGAGGTGAGTTGCAAAGACTGAATAAY
102378 P T S ATGACGTGGCAGACAGAGTTGCAAAGACTGAATAAY
102378 T A S CTGTTTATTCAGTCTTTGCAACTCATCTGTTAGTACTGAATTGAGAATTTTGTCAAATCCAAGTTTGGAAGTGGGAG
102378 T T S CTGTTTATTCAGTCTTTGCAACTCTCTGTTAGTACTGAATTGAGAATTTTGTCAAATCCAAGTTTGGAAGTGGGAG
102378 IS [AT] TAAATTCCACTTGGAAACCCACCTTAGAAATGTACTCTGTTTATTCAGTCTTTGCAACTC[AT]TCTGTTAGTACTGAATTGAGAATTTTGTCAAATCCAAGTTTGGAAGTGGGAGTGCAAACT ctg16105 5
102383 I S GGAAGATGGCGCGCTGCGGGAT
102383 P C S ATGACGTGGCAGACGCCCTGGAACGGAGY
102383 P T S CGCGCCGAGGACCCTGGAACGGAGY
102383 T C S GAAGCTCCGTTCCAGGGCTCCCGCCCGCCCATCTTCCCG
102383 T T S GAAGCTCCGTTCCAGGGTTCCCGCCGCCGCCATCTTCCCG
102383 IS [CT] GAAAGTGCCTCGGCCTTTCGCGCTCAGCTCCGCTTAGCTCCACGAAGCTCCGTTCCAGGG[CT]TCCCGCCGCCGCCATCTTCCCGCCGTCGCCCGCGACGCCCAACGGAACAAAGGCAGGGCCG ctg15422 X
102386 I A GAATAAATTGTATATTATAATTTGATTGGGGGCAGTATTTAGATGCAAAAGACTA
102386 P A A CGCGCCGAGGATCATTGTGATGTTCATACTTTGY
102386 P G A ATGACGTGGCAGACGTCATTGTGATGTTCATACTTTY
102386 T A A TTCTCAAAGTATGAACATCACAATGATTAGTCTTTTGCATCTAAATACTGCCCCCAATCAAATTATAATATACAATTTATTCTC
102386 T G A TTCTCAAAGTATGAACATCACAATGACTAGTCTTTTGCATCTAAATACTGCCCCCAATCAAATTATAATATACAATTTATTCTC
102386 IS [AG] TTTGAGAATAAATTGTATATTATAATTTGATTGGGGGCAGTATTTAGATGCAAAAGACTA[AG]TCATTGTGATGTTCATACTTTGAGAAATAGCAGTGATTATACCTTTTTATTGCTTAGAAG ctg22fin4 22
102392 I S CTTAGCTGTTGTTATTTGGCTTCAGCCAATAGAACTT
102392 P C S ATGACGTGGCAGACGTCTGATTTTGCTAACAGAAAGY
102392 P T S CGCGCCGAGGATCTGATTTTGCTAACAGAAAGY
102392 T C S ACTACTTTCTGTTAGCAAAATCAGACAGTTCTATTGGCTGAAGCCAAATAACAAACAGCTAAGTA
102392 T T S ACTACTTTCTGTTAGCAAAATCAGATAGTTCTATTGGCTGAAGCCAAATAACAAACAGCTAAGTA
102392 IS [CT] TGGTTGCTCATTTCTCCATGTGAAGAACACATAAGACTACTTTCTGTTAGCAAAATCAGA[CT]AGTTCTATTGGCTGAAGCCAAATAACAAACAGCTAAGTAGAACTAGTGTCCTGTTTGTTT ctg3461 17
102410 I A GGGACTTCGCCTGTCTCCTGCGGT
102410 P G A ATGACGTGGCAGAGGTCACAGCCAGTGACTY
102410 P A A CGCGCCGAGGATCACAGCCAGTGACTAY
102410 T G A ACAGTAGTCACTGGCTGTGACCCGCAGGAGACAGCGAAGTCCCGG

FIGURE 129G

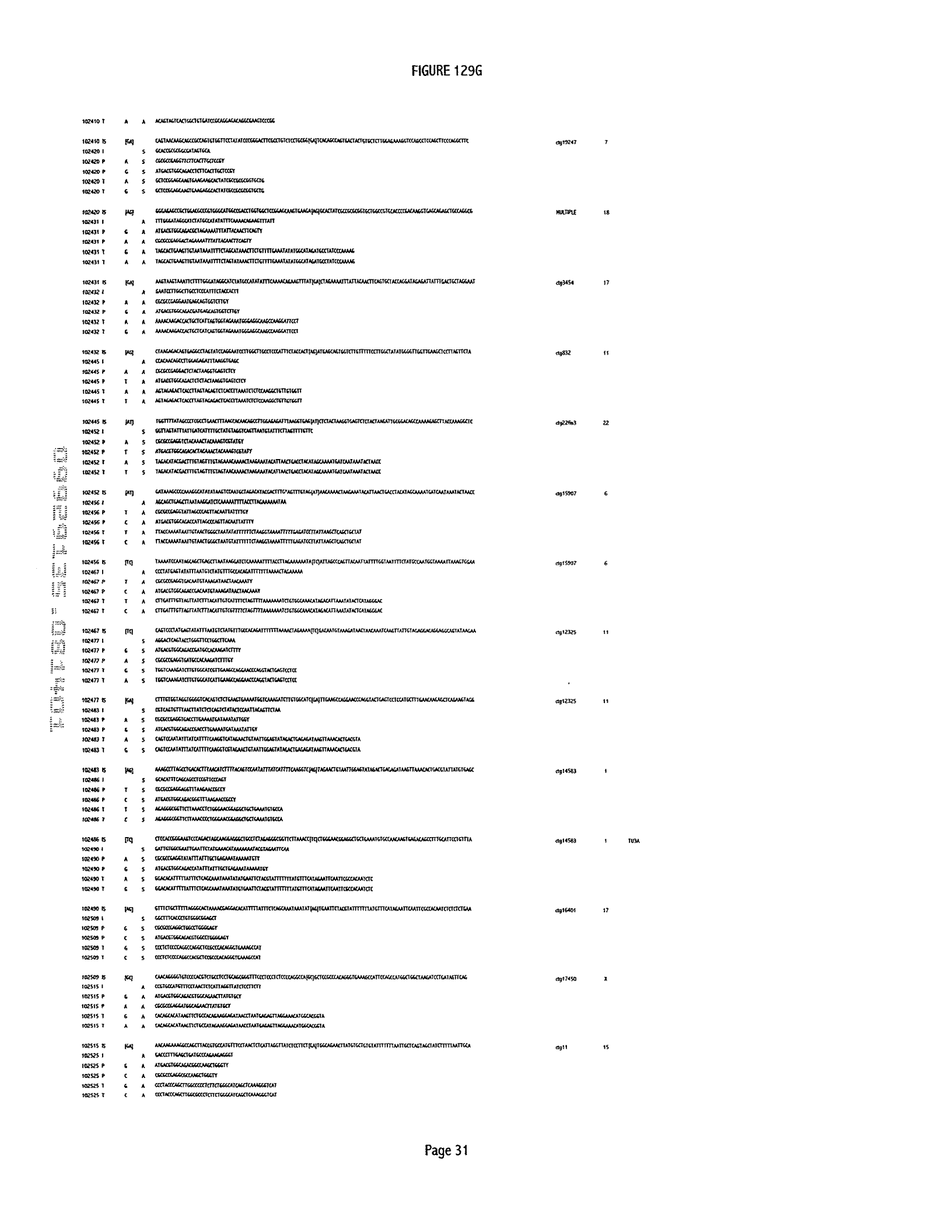

102410 T A A ACAGTAGTCACTGGCTGTGATCGCAGGAGACAGGCGAAGTCCCGG
102410 IS [GA] CAGTAACAAGCAGCCGCCAGTGTGGTTCCTATATCCCGGGACTTCGCCTGTCTCCTGCGG[GA]TCACAGCCAGTGACTACTGTGCTCTTGGAGAAAGGTCCAGCCTCCAGCTTCCCAGGCTTC ctg19247 7
102420 I S GCACCGCGCGGCGATAGTGCA
102420 P A S CGCGCCGAAGGTTCTTCACTTGCTCCGY
102420 P G S ATGACGTGGCAGACCTCTTCACTTGCTCCGY
102420 T A S GCTCCGGAGCAAGTGAAGAAGCACTATCGCCGCGCGGTGCTG
102420 T G S GCTCCGGAGCAAGTGAAGAGGCACTATCGCCGCGCGGTGCTG
102420 IS [AG] GGGAGACCCGCTGGAGCGCCGTGGGCATGGCCGACCTGGTGGCTCCGGAGCAGTGAAGA[AG]GCACTATCGCCGCGCGGTGCTGGCCGTGCACCCCGACAAGGTGAGCAGAGCTGCCAGGCG MULTIPLE 18
102431 I A TTTGGGATAGGCATCTATGCCATATATTTCAAAACAGAAGTTTATT
102431 P G A ATGACGTGGCAGACGCTAGAAAATTTATTACAACTCAGTY
102431 P A A CGCGCCGAGGACTAGAAAATTTATTACAACTTCAGTY
102431 T G A TAGCACTGAAGTTGTAATAAATTTCTAGCATAAACTTCTGTTTTGAAATATATGGCATAGATGCCTATCCCAAAAG
102431 T A A TAGCACTGAAGTTGTAATAAATTTCTAGTATAAACTTCTGTTTTGAAATATATGGCATAGATGCCTATCCCAAAAG
102431 IS [GA] AAGTAAGTAAATTCTTTTGGGATAGGCATCTATGCCATATATTTCAAAACAGAAGTTTATT[GA]CTAGAAAATTTATTACAACTTCAGTGCTACCAGGATAGAGATTATTTGACTGCTAGGAAT ctg3454 17
102432 I A GAATCCTTGGCTTGCCTCCCATTTCTACCACCTT
102432 P A A CGCGCCGAGGAATGAGCAGTGGTCTTGY
102432 P G A ATGACGTGGCAGACGATGAGCAGTGGTCTTGY
102432 T A A AAAACAAGACCACTGCTCATTAGTGGTAGAAATGGGAGGCAAGCCAAGGATTCCT
102432 T G A AAAACAAGACCACTGCTCATCAGTGGTAGAAATGGGAGGCAAGCCAAGGATTCCT
102432 IS [AG] CTAAGAGACAGTGAGGCCTAGTATCCAGGAATCCTTGGCTTGCCTCCATTTCTACCACCT[AG]ATGAGCAGTGGTCTTGTTTTTCCTTGGCTATATGGGGTTGGTTGAAGCTCCTTAGTTCTA ctg832 11
102445 I A CCACAACAGCCTTGGAGAGATTTAAGGTGAGC
102445 P A A CGCGCCGAGGACTCTACTAAGGTGAGTCTCY
102445 P T A ATGACGTGGCAGACTCTCTACTAAGGTGAGTCTCY
102445 T A A AGTAGAGACTCACCTTAGTAGAGTCTCACCTTAAATCTCTCCAAGGCTGTTGTGGTT
102445 T T A AGTAGAGACTCACCTTAGTAGAGACTCACCTTAAATCTCTCCAAGGCTGTTGTGGTT
102445 IS [AT] TGGTTTTATAGCCCTCGCCTGAACTTTAACCACACAGCCTTGGAGAGATTTAAGGTGAG[AT]CTCTACTAAGGTCAGTCTCTACTAAGATTGCGGGACAGCCAAAAGAGCTTACCAAAGCCTC ctg22fm3 22
102452 I S GGTTAGTATTTATTGATCATTTTGCTATGTAGGTCAGTTAATGTATTTCTTAGTTTTGTTC
102452 P A S CGCGCCGAGGTCTACAAACTACAAAGTCGTATGY
102452 P T S ATGACGTGGCAGACACTACAAACTACAAAGTCGTATY
102452 T A S TAGACATACGACTTTGTAGTTTGTAGAAACAAACTAAGAAATACATTAACTGACCTACATAGCAAAATGATCAATAAATACTAACC
102452 T T S TAGACATACGACTTTGTAGTTTGTAGTTAACAAACTAAGAAATACATTAACTGACCTACATAGCAAAATGATCAATAAATACTAACC
102452 IS [AT] GATAAAGCCCCAAAGGCATATATAAGTCCAATGCTAGACATACGACTTTG'AGTTTGTAG[AT]AACAAAACTAAGAAATACATTAACTGACCTACATAGCAAAATGATCAATAAATACTAACC ctg15907 6
102456 I A AGCAGCTGAGCTTAATAAGGATCTCAAAAATTTTACCTTAGAAAAAATAA
102456 P T A CGCGCCGAGGTATTAGCCCAGTTACAATTATTTTGY
102456 P C A ATGACGTGGCAGACCATTAGCCCAGTTACAATTATTTY
102456 T T A TTACCAAAATAATTGTAACTGGGCTAATATATTTTTCTAAGGTAAAATTTTTGAGATCCTTATTAAGCTCAGCTGCTAT
102456 T C A TTACCAAAATAATTGTAACTGGGCTAATGTATTTTTCTAAGGTAAAATTTTTGAGATCCTTATTAAGCTCAGCTGCTAT
102456 IS [TC] TAAAATCCAATAGCAGCTGAGCTTAATAAGGATCTCAAAAATTTTACCTTAGAAAAAATA[TC]ATTAGCCAGTTACAATTATTTTGGTAATTTCTATGCCAATGGTAAAATTAAAGTGGAA ctg15907 6
102467 I A CCCTATGAGTATATTTAATGTCTATGTTTGCCACAGATTTTTTAAAACTAGAAAAA
102467 P T A CGCGCCGAGGTGACAATGTAAAGATAACTAACAAATY
102467 P C A ATGACGTGGCAGACCGACAATGTAAAGATAACTAACAAAT
102467 T T A CTTGATTTGTTAGTTATCTTTACATTGTCATTTTCTAGTTTTAAAAAAATCTGTGGCAAACATAGACATTAAATATACTCATAGGGAC
102467 T C A CTTGATTTGTTAGTTATCTTTACATTGTCGTTTTCTAGTTTTAAAAAAATCTGTGGCAAACATAGACATTAAATATACTCATAGGGAC
102467 IS [TC] CAGTCCCTATGAGTATATTTAATGTCTATGTTTGCCACAGATTTTTTTAAAACTAGAAAA[TC]GACAATGTAAAGATAACTAACAAATCAAGTTATTGTAGAGGACAGGAGGCAGTATAAGAA ctg12325 11
102477 I S AGGACTCAGTACCTGGGTTCCTGGCTTCAAA
102477 P G S ATGACGTGGCAGACCGATGCCACAAGATCTTTY
102477 P A S CGGCCCGAGGTGATGCCACAAGATCTTTGY
102477 T G S TGGTCAAAGATCTTGTGGCATCGTTGAAGCCAGGAACCCAGGTACTGAGTCCTCC
102477 T A S TGGTCAAAGATCTTGTGGCATCATTGAAGCCAGGAACCCAGGTACTGAGTCCTCC
102477 IS [GA] CTTTGTGGTAGGTGGGGTCACAGTCTCTGAAGTGAAAATGGTCAAAGATCTTGTGGCATC[GA]TTGAAGCCAGGAACCCAGGTACTGAGTCCTCCATGCTTTGAACAAGAGCTCAGAAGTAGG ctg12325 11
102483 I S CGTCAGTGTTAACTTATCTCTCAGTCTATACTCCAATTACAGTTCTAA
102483 P A S CGCGCCGAGGTGACCTTGAAAATGATAAATATTGGY
102483 P G S ATGACGTGGCAGACCGACCTTGAAAATGATAAATATTGY
102483 T A S CAGTCCAATATTTATCATTTTCAAGGTCATAGAACTGTAATTGGAGTATAGACTGAGAGATAAGTTAAACACTGACGTA
102483 T G S CAGTCCAATATTTATCATTTTCAAGGTCGTAGAACTGTAATTGGAGTATAGACTGAGAGATAAGTTAAACACTGACGTA
102483 IS [AG] AAAGCCTTAGCCTGACACTTTAACATCTTTACAGTCCAATATTTATCATTTCAAGGTC[AG]TAGAACTGTAATTGGAGTATAGACTGAGAGATAAGTTAAACACTGACGTATTATGTGAGC ctg14583 1
102486 I S GCACATTTCAGCAGCCTCCGTTCCCAGT
102486 P T S CGCGCCCAAGGAGGTTTAAGAACCGCCY
102486 P C S ATGACGTGGCAGACGGGTTTAAGAACCGCCY
102486 T T S AGAGGGCGGTTCTTAAACCTCTGGGAACGGAGGCTGCTGAAATGTGCCA
102486 T C S AGAGGGCGGTTCTTAAACCCCTGGGAACGGAGGCTGCTGAAATGTGCCA
102486 IS [TC] CTCCACCGGGAAGTCCCAGACTAGCAAGGAGGCTGCCTCTAGAGGGCGGTTCTTAAACC[TC]CTGGGAACGGAGGCTGCTGAAATGTGCCAACAAGTGAGACAGCCTTTGCATTCCTGTTA ctg14583 1 TU3A
102490 I S GATTGTGGCCGAATTGAATTCTATGAAACATAAAAAAATACGTAGAATTCAA
102490 P A S CGCGCCGAGGTATATTTATTGCTGAGAAATAAAAATGTY
102490 P G S ATGACGTGGCAGACCATATTTATTGCTGAGAAATAAAAATGY
102490 T A S GGACACATTTTTATTTCTCAGCAAATAAATATATGAATTCTACGTATTTTTTTATGTTTCATAGAATTCAATTCGCCACAATCTC
102490 T G S GGACACATTTTTATTTCTCAGCAAATAAATATGTGAATTCTACGTATTTTTTTATGTTTCATAGAATTCAATTCGCCACAATCTC
102490 IS [AG] GTTTCTGCTTTTTAGGGCACTAAAACGAGGACACACATTTTTATTTCTCAGCAAATAAATAT[AG]TGAATTCTACGTATTTTTTTATGTTTCATAGAATTCAATTCGCCACAATCTCTCTCTGAA ctg16401 17
102509 I S GGCTTTCACCCTGTGGGCGGAGCT
102509 P G S CGCGCCCAGGCTGGCCTGGGGAGY
102509 P C S ATGACGTGGCAGACGTGGCCTGGGGAGY
102509 T G S CCCTCTCCCCAGGCCAGGCTCCGCCCACAGAGTGAAAGCCAT
102509 T C S CCCTCTCCCCAGGCCACGCTCCGCCCACAGAGGTGAAAGCCAT
102509 IS [GC] CAACAGGGGTGTCCCCACGTCTGCCTCCTGCAGCGGGTTTCCCTCCCTCTCCCCAGGCCA[GC]GCTCCGCCCACAGGGTGAAAGCCATTCCAGCCATGGCTGGCTAAGATCCTGATAGTTCAG ctg17450 X
102515 I A CCGTGCCATGTTTCCTAACTCTCATTAGGTTATCTCCTTCT
102515 P G A ATGACGTGGCAGACGTGGCAGAACTTATGTGCY
102515 P A A CGCGCCGAGGATGGCAGAACTTATGTGCY
102515 T G A CACAGCACATAAGTTCTGCCACAGAAGGAGATAACCTAATGAGAGTTAGGAAACATGGCACGGTA
102515 T A A CACAGCACATAAGTTCTGCCATAGAAGGAGATAACCTAATGAGAGTTAGGAAACATGGCACGGTA
102515 IS [GA] AACAAGAAAGGCAGCTTACCGTGCCATGTTTCCTAACTCTCATTAGGTTATCTCCTTCT[GA]TGGCAGAACTTATGTGCTGTGTATTTTTTTTAATTGCTCAGTAGCTATCTTTTTAATTGCA ctg11 15
102525 I A GACCCTTTGAGCTGATGCCCAGAAGAGGGT
102525 P G A ATGACGTGGCAGACGGCCAAGCTGGGTY
102525 P C A CGCGCCCAGGCGCCAAGCTGGGTY
102525 T G A CCCTACCCAGCTTGGCCCCCTCTTCTGGGCATCAGCTCAAAGGGTCAT
102525 T C A CCCTACCCAGCTTGGCGCCCTCTTCTGGGCATCAGCTCAAAGGGTCAT

FIGURE 129G

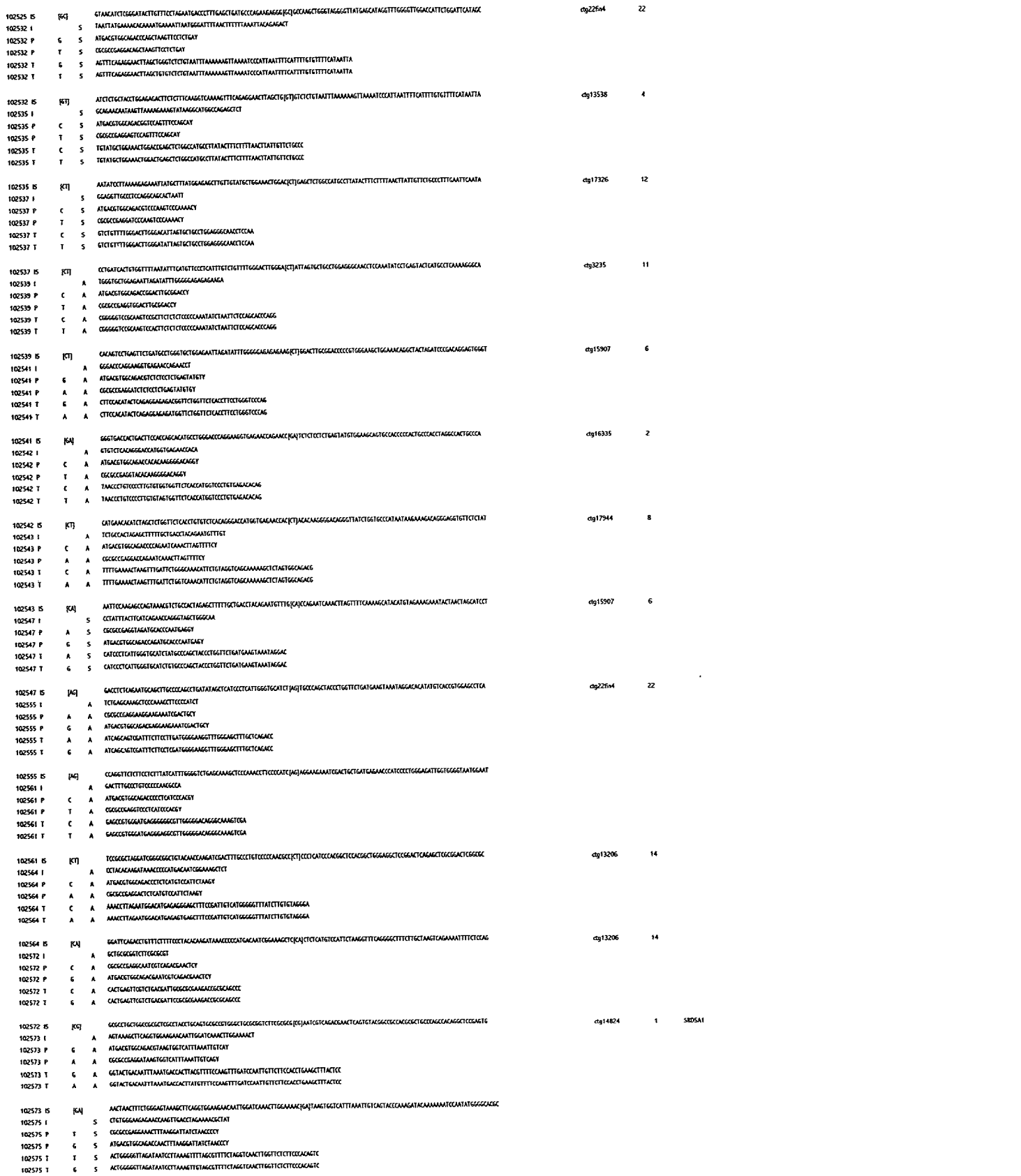

102525 IS [GC] GTAACATCTCGGGATACTTGTTTCCTAGAATGACCCTTTGAGCTGATGCCCAGAAAGAGGG[GC]GCCAAGCTGGGTAGGGGTTATGAGCATAGGTTTGGGGTTGGACCATTCTGGATTCATAGC ctg22fin4 22
102532 I S TAATTATGAAAACACAAAATGAAAATTAATGGGATTTTAACTTTTTAAATTACAGAGACT
102532 P G S ATGACGTGGCAGACCCAGCTAAGTTCCTCTGAY
102532 P T S CGCGCCGAGGACAGCTAAGTTCCTCTGAY
102532 T G S AGTTTCAGAGGAACTTAGCTGGGTCTCTGTAATTTAAAAAAGTTAAAATCCCATTAATTTTCATTTTGTGTTTTCATAATTA
102532 T T S AGTTTCAGAGGAACTTAGCTGTGTCTCTGTAATTTAAAAAAGTTAAAATCCCATTAATTTTCATTTTGTGTTTTCATAATTA
102532 IS [GT] ATCTCTGCTACCTGGAGACACTTCTCTTTCAAGGTCAAAAGTTTCAGAGGAACTTAGCTG[GT]GTCTCTGTAATTTAAAAAAGTTAAAATCCCATTAATTTTCATTTTGTGTTTTCATAATTA ctg13538 4
102535 I S GCAGAACAATAAGTTAAAAGAAAGTATAAGGCATGGCCAGAGCTCT
102535 P C S ATGACGTGCACAGACGGTCCAGTTTCCAGCAY
102535 P T S CGGGCCGAGGAGTCCAGTTTCCAGCAY
102535 T C S TGTATGCTGGAAACTGGACCGAGCTCTGGCCATGCCTTATACTTTCTTTTAACTTATTGTTCTGCCC
102535 T T S TGTATGCTGGAAACTGGACTGAGCTCTGGCCATGCCTTATACTTTCTTTTAACTTATTGTTCTGCCC
102535 IS [CT] AATATCCTTAAAAGAAAATTATGCTTTATGGAGAGCTTGTTGTATGCTGGAAACTGGAC[CT]GAGCTCTGGCCATGCCTTATACTTTCTTTTAACTTATTGTTCTGCCTTTGAATTCAATA ctg17326 12
102537 I S GGAGGTTGCCCTCCAGGCAGCACTAATT
102537 P C S ATGACGTGGCAGACGTCCCAAGTCCCAAAACY
102537 P T S CGGCCCGAGGATCCCAAGTCCCAAAACY
102537 T C S GTCTGTTTTGGGACTTGGGACATTAGTGCTGCCTGGAGGGCAACCTCCAA
102537 T T S GTCTGTTTGGGACTTGGGATATTAGTGCTGCCTGGAGGGCAACCTCCAA
102537 IS [CT] CCTGATCACTGTGGTTTTAATATTTCATGTTCCCTCATTTGTCTGTTTTGGGACTTGGGA[CT]ATTAGTGCTGCCTGGAGGGCAACCTCCAAATATCCTGAGTACTCATGCCTCAAAAGGGCA ctg3235 11
102539 I A TGGGTGCTGGAGAATTAGATATTTGGGGGAGAGAGAAGA
102539 P C A ATGACGTGGCAGACCGGACTTGCGGACCY
102539 P T A CGCGCCGAGGTGGACTTGCGGACCY
102539 T C A CGGGGGTCCGCAAGTCCGCTTCTCTCTCCCCCAAATATCTAATTCTCCAGCACCCAGG
102539 T T A CGGGGGTCCGCAAGTCCACTTCTCTCTCCCCCAAATATCTAATTCTCCAGCACCCAGG
102539 IS [CT] CACAGTCCTGAGTTCTGATGCCTGGGTGCTGGAGAATTAGATATTTGGGGGAGAGAGAAG[CT]GGACTTGCGGACCCCCGTGGGAAGCTGGAAACAGGCTACTAGATCCCGACAGGAGTGGGT ctg15907 6
102541 I A GGGACCCAGGAAGGTGAGAACCAGAACCT
102541 P G A ATGACGTGGCAGACGTCTCTCCTCTGAGTATGTY
102541 P A A CGCGCCGAGGATCTCTCCTCTGAGTATGTGY
102541 T G A CTTCCACATACTCAGAGGAGAGAGCGGTTCTGGTTCTCACCTTCCTGGGTCCCAG
102541 T A A CTTCCACATACTCAGAGGAGAGATGGTTCTGGTTCTCACCTTCCTGGGTCCCAG
102541 IS [GA] GGGTGACCACTGACTTCCACCAGCAGATGCCTGGGAACCAGGAAGGTGAGAACCAGAACC[GA]TCTCTCCTCTGAGTATGTGGAAGCAGTGCCACCCCCACTGCCCACCTAGGCCACTGCCCA ctg16335 2
102542 I A GTGTCTCACAGGGACCATGGTGAGAACCACA
102542 P C A ATGACGTGGCAGACCACACAAGGGGACAGGY
102542 P T A CGCGCCGAGGTACACAAGGGGACAGGY
102542 T C A TAACCCTGTCCCCTTGTGTGGTGGTTCTCACCATGGTCCCTGTGAGACACAG
102542 T T A TAACCCTGTCCCCTTGTGTAGTGGTTCTCACCATGGTCCCTGTGAGACACAG
102542 IS [CT] CATGAACACATCTAGCTCTGGTTCTCACCTGTGTCTCACAGGGACCATGGTGAGAACCAC[CT]ACACAAGGGGACAGGGTTATCTGGTGCCCATAATAAGAAAGACAGGGAGGTGTTCTCTAT ctg17944 8
102543 I A TCTGCCACTAGAGCTTTTGCTGACCTACAGAATGTTTGT
102543 P C A ATGACGTGGCAGACCCAGAATCAAACTTAGTTTCY
102543 P A A CGCGCCGAGGACCAGAATCAAACTTAGTTTTCY
102543 T C A TTTTGAAAACTAAGTTTGATTCTGGGCAAACATTCTGTAGGTCAGCAAAAAGCTCTAGTGGCAGACG
102543 T A A TTTTGAAAACTAAGTTTGATTCTGGTCAAACATTCTGTAGGTCAGCAAAAAGCTCTAGTGGCAGACG
102543 IS [CA] AATTCCAAGAGCCAGTAAAGTCTGCCACTAGAGCTTTTTGCTGACCTACAGAATGTTTG[CA]CCAGAATCAAACTTAGTTTTCAAAAGCATACATGTAGAAAGAAATACTAACTAGCATCCT ctg15907 6
102547 I S CCTATTTACTTCATCAGAACCAGGGTAGCTGGGCAA
102547 P A S CGCGCCGAGGTAGATGCACCCAATGAGGY
102547 P G S ATGACGTGGCAGACCAGATGCACCCAATGAGY
102547 T A S CATCCCTCATTGGGTGCATCTATGCCCAGCTACCCTGGTTCTGATGAAGTAAATAGGAC
102547 T G S CATCCCTCATTGGGTGCATCTGTGCCCAGCTACCCTGGTTCTGATGAAGTAAATAGGAC
102547 IS [AG] GACCTCTCAGAATGCAGCTTGCCCCAGCCTGATATAGCTCATCCCTCATTGGGTGCATCT[AG]TGCCCAGCTACCCTGGTTCTGATGAAGTAAATAGGACACATATGTCACCGTGGAGCCTCA ctg22fin4 22
102555 I A TCTGAGCAAAGCTCCCAAAGCTTCCCCATCT
102555 P A A CGCGCCGAGGAAGGAAGAAATCGACTGCY
102555 P G A ATGACGTGGCAGACGAGGAAGAAATCGACTGCY
102555 T A A ATCAGCAGTCGATTTCTTCCTTGATGGGCAAGGTTTGGGAGCTTTGCTCAGACC
102555 T G A ATCAGCAGTCGATTTCTTCCTGATGGGGAAGGTTTGGGAGCTTTGCTCAGACC
102555 IS [AG] CCAGGTTCTCTTCCTCTTTATCATTTGGGGTCTGAGCAAAGCTCCCAAACCTTCCCCATC[AG]AGGAAGAAATCGACTGCTGATCAGAACCCATCCCCTGGGAGATTGGTGGGGTAATGGAAT
102561 I A GACTTTGCCCTGTCCCCCAACGCCA
102561 P C A ATGACGTGGCAGACCCCCTCATCCCACGY
102561 P T A CGCGCCGAGGTCCCTCATCCCACGY
102561 T C A GAGCCGTGGGATGAGGGGGGGGTTGGGGGACAGGGCAAGTCGA
102561 T T A GAGCCGTGGGATGAGGGAGCCGTTGGGGGACAGGGCAAGTCGA
102561 IS [CT] TCCGGGCTAGGATCGGGGGGCTGTACAACCAAGATCGACTTTGCCCTGTCCCCCAACGCC[CT]CCCTCATCCCACGGCTCCACGGCTGGGAGGCTCCGGACTCAGAGCTGCCGGACTCGGCGC ctg13206 14
102564 I A CCTACACAAGATAAACCCCCATGACAATCGGAAAGCTCT
102564 P C A ATGACGTGGCAGACCCTCTCATGTCCATTCTAAGY
102564 P A A CGCGCCGAGCACTCTCATGTCCATTCTAAGY
102564 T C A AAACCTTAGAATGGACATGAGAGGGAGCTTTCCGATTGTCATGGGGGTTTATCTTGTGTAGGGA
102564 T A A AAACCTTAGAATGGACATGAGAGTGAGCTTTCCGATTGTCATGGGGGTTTATCTTGTGTAGGGA
102564 IS [CA] GGATTCAGACCTGTTTCTTTTCCCTACACAAGATAAACCCCCATGACAATCGGAAAGCTC[CA]CTCTCATGTCCATTCTAAGGTTTCAGGGGCTTTCTTGCTAAGTCAGAAAATTTTCTCCAG ctg13206 14
102572 I A GCTGCGCGGTCTTCGCGCGT
102572 P C A CGCGCCGAGGCAATCGTCAGACGAACTCY
102572 P G A ATGACGTGGCAGACGAATCGTCAGACGAACTCY
102572 T C A CACTGAGTTCGTCTGACGATTGCGCGCGAAGACCGCGCAGCCC
102572 T G A CACTGAGTTCGTCTGACGATTCCGCGCGAAGACCGCGCAGCCC
102572 IS [CG] GCGCCTGCTGGCCGCGCTCGCCTACCTGCAGTCGCCCTGGGCTGCGCGGTCTTCGCGCG[CG]AATCGTCAGACGAACTCAGTGTACGGCCGCCACGCGCTGCCCAGCCACAGGCTCCGAGTG ctg14824 1 SRDSA1
102573 I A AGTAAAGCTTCAGGTGGAAGAACAATTGGATCAAACTTGGAAAACT
102573 P G A ATGACGTGGCAGACGTAAGTGGTCATTTAAATTGTCAY
102573 P A A CGCGCCGAGGATAAGTGGTCATTTAAATTGTCAGY
102573 T G A GGTACTGACAATTTAAATGACCACTTACGTTTTCCAAGTTTGATCCAATTGTTCTTCCACCTGAAGCTTTACTCC
102573 T A A GGTACTGACAATTTAAATGACCACTTATGTTTTCCAAGTTTGATCCAATTGTTCTTCCACCTGAAGCTTTACTCC
102573 IS [GA] AACTAACTTTCTGGGAGTAAAGCTTCAGGTGGAAGAACAATTGGATCAAACTTGGAAAAC[GA]TAAGTGGTCATTTAAATTGTCAGTACCCAAAGATACAAAAAAATCCAATATGGGGCACGC
102575 I S CTGTGGGAAGAGAACCAAGTTGACCTAGAAAACGCTAT
102575 P T S CGCGCCGAGGAAACTTTAAGGATTATCTAACCCY
102575 P G S ATGACGTGGCAGACCAACTTTAAGGATTATCTAACCCY
102575 T T S ACTGGGGGTTAGATAATCCTTAAAGTTTTAGCGTTTTCTAGGTCAACTTGGTTCTCTTCCCACAGTC
102575 T G S ACTGGGGGTTAGATAATCCTTAAAGTTGTAGCGTTTTCTAGGTCAACTTGGTTCTCTTCCCACAGTC

FIGURE 129G

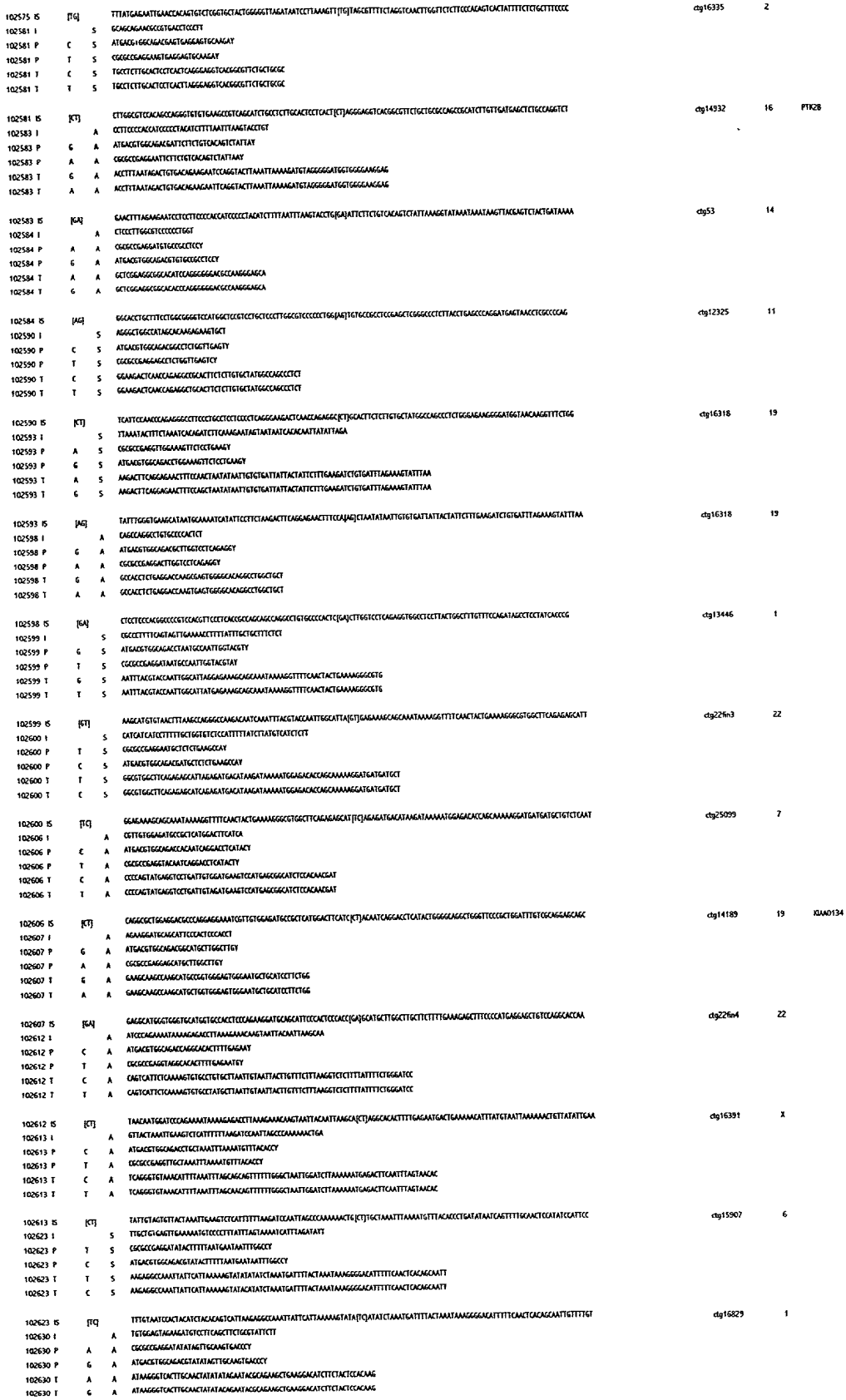

102575 IS [TG] TTTATGAGAATTGAACCACAGTGTCTGGGTGCTACTGGGGGTTAGATAATCCTTAAAGTT[TG]TAGCGTTTTCTAGGTCAACTTGGTTCTCTTCCCACAGTCACTATTTTCTCTGCTTTCCCC ctg16335 2
102581 I S GCAGCAGAACGCCGTGACCTCCCTT
102581 P C S ATGACGIGGCAGACGAGTGAGGAGTGCAAGAY
102581 P T S CGGGCCGAGGAAGTGAGGAGTGCAAGAY
102581 T C S TGCCTCTTGCACTCCTCACTCAGGGAGGTCACGGGGTTCTGCTGCGC
102581 T T S TGCCTCTTGCACTCCTCACTTAGGGAGGTCACGGGGTTCTGCTGCGC
102581 IS [CT] CTTGGCGTCCACAGCCAGGGTGTGTGAAGCCGTCAGCATCTGCCTCTTGCAACTCCTCACT[CT]AGGCAGGTCACGGCGTTCTGCTGCGCCAGCCGCATCTTGTTGATGAGCTCTGCCAGGTCT ctg14932 16 PTK2B
102583 I A CCTTCCCCACCATCCCCCTACATCTTTTAATTTAAGTACCTGT
102583 P G A ATGACGTGGCAGACGATTCTTCTGTCACAGTCTATTAY
102583 P A A CGGCCGAGGAATTCTTCTGTCACAGTCTATTAAY
102583 T G A ACCTTTAATAGACTGTGACAGAAGAATCCAGGTACTTAAATTAAAAGATGTAGGGGGATGGTGGGGAAGGAG
102583 T A A ACCTTTAATAGACTGTGACAGAAGAATTCAGGTACTTAAATTAAAAGATGTAGGGGGATGGTGGGGAAGGAG
102583 IS [GA] GAACTTTAGAAGAATCCTCCTTCCCCACCATCCCCCTACATCTTTTAATTTAAGTACCTG[GA]ATTCTTCTGTCACAGTCTATTAAAGGTATAAATAAATAAGTTACGAGTCTACTGATAAAA ctg53 14
102584 I A CTCCCTTGGCGTCCCCCCTGGT
102584 P A A CGGCCCGAGGATGTGCCGCCTCCY
102584 P G A ATGACGTGGCAGACGTGTGCCGCCTCCY
102584 T A A GCTCGGAGGCGGCACATCCAGGCGGGAGCGCCAAGGGAGCA
102584 T G A GCTCGGAGGCGGCACACCCAGGCGGGAGCGCCAAGGGAGCA
102584 IS [AG] GGCACCTGCTTTCCTGGCGGGGTCCATGGCTCCGTCCTGCTCCCTTGGCGTCCCCCCTGG[AG]TGTGCCGCCTCCGAGCTCGGGCCCTCTTACCTGAGCCCAGGATGAGTAACCTCGCCCCAG ctg12325 11
102590 I S AGGGCTGGCCATAGCACAAGAGAAGTGCT
102590 P C S ATGACGTGGCAGACGGCCTCTGGTTGAGTY
102590 P T S CGCGCCGAGGAGCCTCTGGTTGAGTCY
102590 T C S GGAAGACTCAACCAGAGCGCGCACTCTCTCTGTGCTATGGCCAGCCCTCT
102590 T T S GGAAGACTCAACCAGAGGCTGCACTCTCTCTGTGCTATGGCCAGCCCTCT
102590 IS [CT] TCATTCCAACCCAGAGGGCCTTCCCTGCCTCCTCCCCTCAGGGAAGACTCAACCAGAGGC[CT]GCACTTCTCTTGTGCTATGGCCAGCCCTCTGGGAGAAGGGGATGGTAACAAGGTTTCTGG ctg16318 19
102593 I S TTAAATACTTTCTAAATCACAGATCTTCAAAGAATAGTAATAATCACACAATTATATTAGA
102593 P A S CGCGCCGAGGTTGGAAAGTTCTCCTGAAGY
102593 P G S ATGAGTGGCAGACCTGAAAGTTCTCCTGAAGY
102593 T A S AAGACTTCAGGAGAACTTTCCAACTAATATAATTGTGTGATTATTACTATTCTTTGAAGATCTGTGATTTAGAAAGTATTTAA
102593 T G S AAGACTTCAGGAGAACTTTCCAGCTAATATAATTGTGTGATTATTACTATTCTTTGAAGATCTGTGATTTAGAAAGTATTTAA
102593 IS [AG] TATTTGGGTGAAGCATAATGCAAAATCATATTCCTTCTAAGACTTCAGGAGAACTTTCCA[AG]CTAATATAATTGTGTGATTATTACTATTCTTTGAAGATCTGTGATTTAGAAAGTATTTAA ctg16318 19
102598 I A CAGCCAGGCCTGTGCCCCACTCT
102598 P G A ATGACGTGGCAGACGCTTGGTCCTCAGAGGY
102598 P A A CGCGCCGAGGACTTGGTCCTCAGAGGY
102598 T G A GCCACCTCTGAGGACCAAGCGAGTGGGGCACAGCCTGGCTGCT
102598 T A A GCCACCTCTGAGGACCAAGTGAGTGGGGCACAGCCTGGCTGCT
102598 IS [GA] CTCCTCCCACGGCCCCTCCACGTTCCCTCACCGCCAGCAGCCAGGCCTGTGCCCCACTC[GA]CTTGGTCCTCAGAGGTGGCCTCCTTACTGGCTTTGTTTCCAGATAGCCTCCTATCACCCG ctg13446 1
102599 I S CGCCCTTTTCAGTAGTTGAAAACCTTTTATTTGCTGCTTTCTCT
102599 P G S ATGACGTGGCAGACCTAATGCCAATTGGTACGTY
102599 P T S CGCGCCGAGGATAATGCCAATTGGTACGTAY
102599 T G S AATTTAACGTACCAATTGGCATTAGGAGAAAGCAGCAAATAAAAGGTTTTCAACTACTGAAAAGGGCGTG
102599 T T S AATTTAACGTACCAATTGGCATTATGAGAAAGCAGCAAATAAAAGGTTTTCAACTACTGAAAAGGGCGTG
102599 IS [GT] AAGCATGTGTAACTTTAAGCCAGGGCCAAGACAATCAAATTTACGTACCAATTGGCATTA[GT]GAGAAAGCAGCAAATAAAAGGTTTTCAACTACTGAAAAGGGCGTGGCTTCAGAGAGCATT ctg22fm3 22
102600 I S CATGATCATCCTTTTTGCTGGTGTCTCCCATTTTTATCTTATGTCATCTCTT
102600 P T S CGCGCCGAGGAATGCTCTCTGAAGCCAY
102600 P C S ATGACGTGGCAGACGATGCTCTCTGAAGCCAY
102600 T T S GGCGTGGCTTCAGAGAGCATTAGAGATGACATAAGATAAAAATGGAGACACCAGCAAAAAGGATGATGATGCT
102600 T C S GGCGTGGCTTCAGAGAGCATCAGAGATGACATAAGATAAAAATGGAGACACCAGCAAAAAGGATGATGATGCT
102600 IS [TC] GGAGAAAGCAGCAAATAAAAGGTTTTCAACTACTGAAAAGGGCGTGGCTTCAGAGAGCAT[TC]AGAGATGACATAAGATAAAAATGGAGACACCAGCAAAAAGGATGATGATGCTGTCTCAAT ctg25099 7
102606 I A CGTTGTGGAGATGCCGCTCATGGACTTCATCA
102606 P C A ATGACGTGGCAGACCACAATCAGGACCTCATACY
102606 P T A CGCGCCGAGGTACAATCAGGACCTCATACTY
102606 T C A CCCCAGTATGAGGTCCTGATTGTGGATGAAGTCCATGAGCGGCATCTCCACAACGAT
102606 T T A CCCCAGTATGAGGTCCTGATTGTAGATGAAGTCCATGAGCGGCATCTCCACAACGAT
102606 IS [CT] CAGGCGCTGGAGGACGCCCAGGAGGAAATCGTTGTGGAGATGCCGCTCATGGACTTCATC[CT]ACAATCAGGACCTCATACTGGGGGAGGCTGGGTTCCCGCTGGATTTGTCGCAGGAGCAGC ctg14189 19 XIAA0134
102607 I A AGAAGGATGCAGCATTCCCACTCCCACCT
102607 P G A ATGACGTGGCAGACGGCATGCTTGGCTTGY
102607 P A A CGCGCCGAGGAGCATGCTTGGCTTGY
102607 T G A GAAGCAAGCCAAGCATGCCGGTGGGAGTGGCAATGCTGCATCCTTCTGG
102607 T A A GAAGCAAGCCAAGCATGCTGGTGGGAGTGGCAATGCTGCATCCTTCTGG
102607 IS [GA] GAGGCATGGGTGGGTGCATGGTGCCACCTCCCAGAAGGATGCAGCATTCCCACTCCCACC[GA]GCATGCTTGGCTTGCTTCTTTTGAAAGAGCTTTCCCCATGAGGAGCTGTCCAGGCACCAA ctg22fm4 22
102612 I A ATCCCAGAAAATAAAAGAGACCTTAAAGAAACAAGTAATTACAATTAAGCAA
102612 P C A ATGACGTGGCAGACCAGGCACACTTTTGAGAAT
102612 P T A CGCGCCGAGGTAGGCACACTTTTGAGAATGY
102612 T C A CAGTCATTCTCAAAAGTGTGCCTGTGCTTAATTGTAATTACTTGTTTCTTTAAGGTCTCTTTTATTTTCTGGGATCC
102612 T T A CAGTCATTCTCAAAAGTGTGCCTATGCTTAATTGTAATTACTTGTTTCTTTAAGGTCTCTTTTATTTTCTGGGATCC
102612 IS [CT] TAACAATGGATCCCAGAAAATAAAAGAGACCTTAAAGAAACAAGTAATTACAATTAAGCA[CT]AGGCACACTTTTGAGAATGACTGAAAAACATTTATGTAATTAAAAAACTGTTATATTGAA ctg16391 X
102613 I A GTTACTAAATTGAAGTCTCATTTTTTAAGATCCAATTAGCCCAAAAACTGA
102613 P C A ATGACGTGGCAGACCTGCTAAATTTAAAATGTTTACACCY
102613 P T A CGCGCCGAGGTTGCTAAATTTAAAATGTTTACACCY
102613 T C A TCAGGGTGTAAACATTTTAAATTTAGCAGCAGTTTTTTGGGCTAATTGGATCTTAAAAAATGAGACTTCAATTTAGTAACAC
102613 T T A TCAGGGTGTAAACATTTTAAATTTAGCAACAGTTTTTTGGGCTAATTGGATCTTAAAAAATGAGACTTCAATTTAGTAACAC
102613 IS [CT] TATTGTAGTGTTACTAAATTGAAGTCTCATTTTTTAAGATCCAATTAGCCCAAAAACTG[CT]TGCTAAATTTAAAATGTTTACACCTGATATAATCAGTTTTGGAACTCCATATCCATTCC ctg15907 6
102623 I S TTGCTGTGAGTTGAAAAATGTCCCCTTTATTTAGTAAAATCATTTAGATATT
102623 P T S CGCGCCGAGGATATACTTTTTAATGAATAATTTGGCCY
102623 P C S ATGACGTGGCAGACGTATACTTTTTAATGAATAATTTGGCCY
102623 T T S AAGAGCCAAATTATTCATTAAAAAGTATATATATCTAAATGATTTTACTAAATAAAGGGGACATTTTTCAACTCACAGCAATT
102623 T C S AAGAGCCAAATTATTCATTAAAAAGTATACATATCTAAATGATTTTACTAAATAAAGGGGACATTTTTCAACTCACAGCAATT
102623 IS [TC] TTTGTAATCCACTACATCTACACAGTCATTAAGAGGCCAAATTATTCATTAAAAAGTATA[TC]ATATCTAAATGATTTTACTAAATAAAGGGGACATTTTTCAACTCACAGCAATTGTTTTGT ctg16829 1
102630 I A TGTGCAGTAGAAGATGTCCTTCAGCTTCTGGGTATTCTT
102630 P A A CGCGCCGAGGATATATAGTTGCAAGTGACCCY
102630 P G A ATGACGTGGCAGACGTATATAGTTGCAAGTGACCCY
102630 T A A ATAAGGGTCACTTGCAACTATATATAGAATACGCAGAAGCTGAAGGACATCTTCTACTCCACAAG
102630 T G A ATAAGGGTCACTTGCAACTATATACAGAATACGCAGAAGCTGAAGGACATCTTCTACTCCACAAG

FIGURE 129G

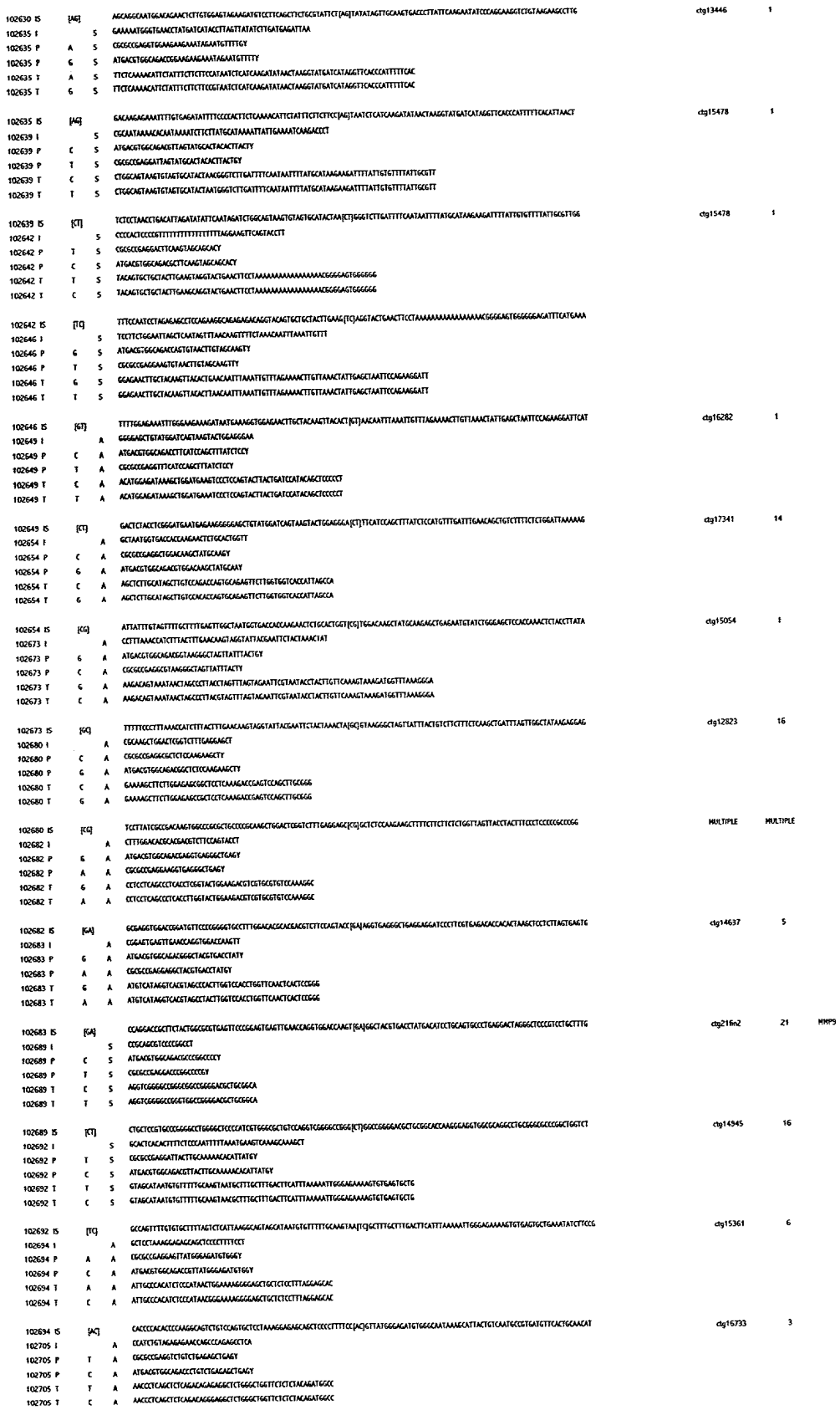

102630 IS [AG] AGCAGGCAATGGACAGAACTCTTGTGGAGTAGAAGATGTCCTTCAGCTTCTGCGTATTCT[AG]TATATAGTTGCAAGTGACCCTTATTCAAGAATATCCCAGGAAGGTCTGTAAGAAGCCTTG ctg13446 1
102635 I S GAAAAATGGGTGAACCTATGATCATACCTTAGTTATATCTGATGAGATTAA
102635 P A S CGCCCCGAGGTGGAAGAAGAAATAGAATGTTTTGY
102635 P G S ATGACGTGGCAGACCGGAAGAAGAAATAGAATGTTTTY
102635 T A S TTCTCAAAACATTCTATTTCTTCTTCCATAATCTCATCAAGATATAACTAAGGTATGATCATAGGTTCACCCATTTTTCAC
102635 T G S TTCTCAAAACATTCTATTTCTTCTTCCGTAATCTCATCAAGATATAACTAAGGTATGATCATAGGTTCACCCATTTTTCAC
102635 IS [AG] GACAAGAGAAATTTTGTGAGATATTTTCCCCACTTCTCAAAACATTCTATTTCTTCTTCC[AG]TAATCTCATCAAGATATAACTAAGGTATGATCATAGGTTCACCCATTTTTCACATTAACT ctg15478 1
102639 I S CGCAATAAAACACAATAAAATCTTCTTATGCATAAAATTATTGAAAATCAAGACCCT
102639 P C S ATGACGTGGCAGACGTTAGTATGCACTACACTTACTY
102639 P T S CGCGCCGAGGATTAGTATGCACTACACTTACTGY
102639 T C S CTGGCAGTAAGTGTAGTGCATACTAACGGGTCTTGATTTTCAATAATTTTATGCATAAGAAGATTTTATTGTGTTTTATTGCGTT
102639 T T S CTGGCAGTAAGTGTAGTGCATACTAATGGGTCTTGATTTTCAATAATTTTATGCATAAGAAGATTTTATTGTGTTTTATTGCGTT
102639 IS [CT] TCTCCTAACCTGACATTAGATATATTCAATAGATCTGGCAGTAAGTGTAGTGCATACTAA[CT]GGGTCTTTGATTTTCAATAATTTTATGCATAAGAAGATTTTATTGTGTTTTATTGCGTTGG ctg15478 1
102642 I S CCCCACTCCCCGTTTTTTTTTTTTTTTTTTTAGGAAGTTCAGTACCTT
102642 P T S CGGCCCGAGGACTTCAAGTAGCAGCACY
102642 P C S ATGACGTGGCAGACGCTTCAAGTAGCAGCACY
102642 T T S TACAGTGCTGCTACTTGAAGTAGGTACTGAACTTCCTAAAAAAAAAAAAAAAAAACGGGCAGTGGGGGG
102642 T C S TACAGTGCTGCTACTTGAAGCAGGTACTGAACTTCCTAAAAAAAAAAAAAAAACGGGCAGTGGGGGG
102642 IS [TC] TTTCCAATCCTAGAGAGCCTCCAGAAGGCAGAGAGACAGGTACAGTGCTGCTACTTGAAG[TC]AGGTACTGAACTTCCTAAAAAAAAAAAAAAAACGGGCAGTGGGGGGAGATTTCATGAAA
102646 I S TCCTTCTGGAATTAGCTCAATAGTTAACAAGTTTTCTAAACAATTTAAATTGTTT
102646 P G S ATGACGTGGCAGACGTGTAACTTGTAGCAAGTY
102646 P T S CGCGCCGAGGAAGTGTAACTTGTAGCAAGTTY
102646 T G S GGAGAACTTGCTACAAGTTACACTGAACAATTTAAATTGTTTAGAAAACTTGTTAAACTATTGAGCTAATTCCAGAAGGATT
102646 T T S GGAGAACTTGCTACAAGTTACACTTAACAATTTAAATTGTTTAGAAAACTTGTTAAACTATTGAGCTAATTCCAGAAGGATT
102646 IS [GT] TTTTGGAGAAATTTGGGAAGAAAGATAATGAAAGGTGGAGAACTTGCTACAAGTTACACT[GT]AACAATTTAAATTGTTTAGAAAACTTGTTAAACTATTGAGCTAATTCCAGAAGGATTCAT ctg16282 1
102649 I A GGGGAGCTGTATGGATCAGTAAGTACTGGAGGGAA
102649 P C A ATGACGTGGCAGACTTCATCCAGCTTTATCTCCY
102649 P T A CGCGCCGAGGTTTCATCCAGCTTTATCTCCY
102649 T C A ACATGGAGATAAAGCTGGATGAAGTCCCTCCAGTACTTACTGATCCATACAGCTCCCCCT
102649 T T A ACATGGAGATAAAGCTGGATGAAATCCCTCCAGTACTTACTGATCCATACAGCTCCCCCT
102649 IS [CT] GACTCTACCTCGGGATGAATGAGAAGGGGGAGCTGTATGGATCAGTAAGTACTGGAGGGA[CT]TTCATCCAGCTTTATCTCCATGTTTGATTTGAACAGCTGTCTTTTCTCTGGATTAAAAAG ctg17341 14
102654 I A GCTAATGGTGACCACCAAGAACTCTGCACTGGTT
102654 P C A CGCGCCGAGGCTGGACAAGCTATGCAAGY
102654 P G A ATGACGTGGCAGACGTGGACAAGCTATGCAAY
102654 T C A AGCTCTTGCATAGCTTGTCCAGACCAGTGCAGAGTTCTTGGTGGTCACCATTAGCCA
102654 T G A AGCTCTTGCATAGCTTGTCCAGACCAGTGCAGAGTTCTTGGTGGTCACCATTAGCCA
102654 IS [CG] ATTATTTGTAGTTTTGCTTTTGAGTTTGGCTAATGCTGACCACCAAGAACTCTGCACTGGT[CG]TGGACAAGCTATGCAAGAGCTGAGAATGTATCTGGGAGCTCCACCAAACTCTACCTTATA ctg15054 1
102673 I A CCTTTAAACCATCTTTACTTTGAACAAGTAGGTATTACGAATTCTACTAAACTAT
102673 P G A ATGACGTGGCAGACGGTAAGGGCTAGTTATTTACTGY
102673 P C A CGCGCCGAGGCGTAAGGGCTAGTTATTTACTY
102673 T G A AAGACAGTAAATAACTAGCCCTTACCTAGTTTAGTAGAATTCGTAATACCTACTTGTTCAAAGTAAAGATGGTTTAAAGGGA
102673 T C A AAGACAGTAAATAACTAGCCCTTACGTAGTTTAGTAGAATTCGTAATACCTACTTGTTCAAAGTAAAGATGGTTTAAAGGGA
102673 IS [GC] TTTTTCCCTTTAAACCATCTTTACTTTGAACAAGTAGGTATTACGAATTCTACTAAACTA[GC]GTAAGGGCTAGTTATTTACTGTCTTCTTTCTCAAGCTGATTTAGTTGGCTATAAGAGGAG ctg12823 16
102680 I A CGCAAGCTGGACTCGGTCTTTGAGGAGCT
102680 P C A CGCGCCGAGGCGCTCTCCAAGAAGCTY
102680 P G A ATGACGTGGCAGAGGGCTCTCCAAGAAGCTY
102680 T C A GAAAAGCTTCTTGGAGAGCGGCTCCTCAAGAACCGAGTCCAGCTTGCGGG
102680 T G A GAAAAGCTTCTTGGAGAGCGGCTCCTCAAGAACCGAGTCCAGCTTGCGGG
102680 IS [CG] TCCTTATCGCCGACAAGTGGCCGGCGCTGCCCGGCAAGCTGGACTGGCTCTTGAGGAGC[CG]GCTCTCCAAGAAGCTTTTCTTCTTCTCTGGTTAGTTACCTACTTTCCCTCCCCGCCCGG MULTIPLE MULTIPLE
102682 I A CTTTGGACACGCACGAGGTCTTCGAGTACCT
102682 P G A ATGACGTGGCAGACGAGGTGAGGGCTGAGY
102682 P A A CGCGCCGAGGAAGGTGAGGGCTGAGY
102682 T G A CCTCCTCAGCCCTCACCTGGTACTGGAAGACGTCGTGCGTGTCCAAAGGC
102682 T A A CCTCCTCAGCCCTCACCTTGGTACTGGAAGACGTCGTGCGTGTCCAAAGGC
102682 IS [GA] GCGAGGTGGACCGGATGTTCCCCGGGGTGCCTTTGGACACGCACGACGTCTTCCAGTACC[GA]AGGTGAGGGCTGAGGAGGATCCCTTCGTGAGACACCACACTAAGCTCCTCTTAGTGAGTG ctg14637 5
102683 I A CGGAGTGAGTTGAACCAGGTGGACCAAGTT
102683 P G A ATGACGTGGCAGACGGGCTACGTGACCTATY
102683 P A A CGCGCCGAGGAGGCTACGTGACCTATGY
102683 T G A ATGTCATAGGTCACGTAGCCACTTGGTCCACCTGGTTCAACTCACTCCGGG
102683 T A A ATGTCATAGGTCACGTAGCCTACTTGGTCCACCTGGTTCAACTCACTCCGGG
102683 IS [GA] CCAGGACCGCTTCTACTGGCGCGTGAGTTCCCGGAGTGAGTTGAACCAGGTGGACCAAGT[GA]GGCTACGTGACCTATGACATCCTGCAGTGCCCTGAGGACTAGGGCTCCCGTCCTGCTTTG ctg21fn2 21 MMP9
102689 I S CCGCAGCGTCCCCGGCCT
102689 P C S ATGACGTGGCAGACGCCCCGGCCCCY
102689 P T S CGGCCCGAGGACCCGGCCCCY
102689 T C S AGGTCGGGGCCGGGGCGGCCGGGGACGCTGCGGCA
102689 T T S AGGTCGGGGCCGGGTGGCCGGGGACGCTGCGGCA
102689 IS [CT] CTGCTCCGTGCCCGGGGCCTGGGGCTCCCCATCGTGGGCGCTGTCCAGGTCGGGGCCGG[CT]GGCCGGGGACGCTGCGGCACCAAGGGAGGTGGCGCAGGCCTGCGGGCGCCCGGCTGGTCT ctg14945 16
102692 I S GCACTCACACTTTCTCCCATTTTTAAATGAAGTCAAAGCAAAGCT
102692 P T S CGCGCCGAGGATTACTTGCAAAAACACATTATGY
102692 P C S ATGACGTGGCAGACGTTACTTGCAAAAACACATTATGY
102692 T T S GTAGCATAATGTGTTTTTGCAAGTAATGCTTTGCTTTGACTTCATTTAAAAATTGGGAGAAAAGTGTGAGTGCTG
102692 T C S GTAGCATAATGTGTTTTTGCAAGTAACGCTTTGCTTTGACTTCATTTAAAAATTGGGAGAAAAGTGTGAGTGCTG
102692 IS [TC] GCCAGTTTTGTGTGCTTTTAGTCTCATTAAGGCAGTAGCATAATGTGTTTTTGCAAGTAA[TC]GCTTTGCTTTGACTTCATTTAAAAATTGGGAGAAAAGTGTGAGTGCTGAAATATCTTCCG ctg15361 6
102694 I A GCTCCTAAAGGAGAGAGCAGCTCCCCTTTTCCT
102694 P A A CGCGCCGAGGAGTTATGGGAGATGTGGGY
102694 P C A ATGAGTGGCAGACCGTTATGGGAGATGTGGY
102694 T A A ATTGCCCACATCTCCCATAACTGGAAAAGGGGAGCTGCTCTCCTTTAGGAGCAC
102694 T C A ATTGCCCACATCTCCCATAACTGGAAAAGGGGAGCTGCTCTCCTTTAGGAGCAC
102694 IS [AC] CACCCCACACCCAAGGCAGTCTGTCCAGTGCTCCTAAAGGAGAGCAGCTCCCCTTTTCC[AC]GTTATGGGACATGTGGGCAATAAAGCATTACTGTCAATGCCGTGATGTTCACTGCAACAT ctg16733 3
102705 I A CCATCTGTAGAGAGAACCAGCCCAGAGCCTCA
102705 P T A CGCGCCGAGGTCTGTCTGAGAGCTGAGY
102705 P C A ATGAGGTGGCAGACCCTGTCTGAGAGCTGAGY
102705 T T A AACCCTCAGCTCTCAGACAGAGAGGCTCTGGGCTGGTTCTCTCTACAGATGGCC
102705 T C A AACCCTCAGCTCTCAGACAGGGAGGCTCTGGGCTGGTTCTCTCTACAGATGGCC

FIGURE 129G

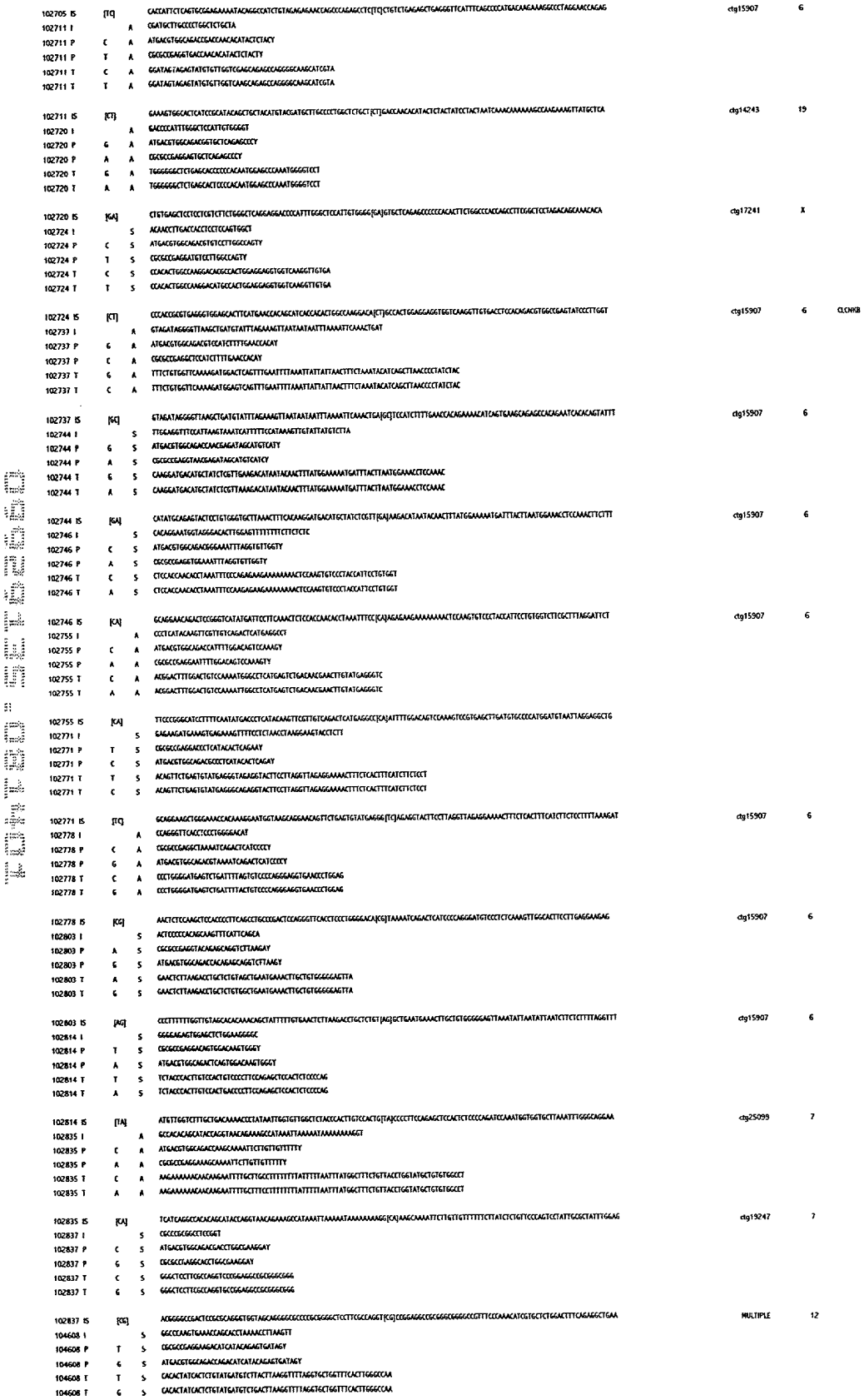

102705 IS [TC] CACCATTCTCAGTGCGGAGAAAATACAGGCCATCTGTAGAGAGAACCAGCCCAGAGCCTC[TC]CTGTCTGAGAGCTGAGGGTTCATTTCAGCCCCATGACAAGAAAGGCCCTAGGAACCAGAG ctg15907 6
102711 I A CGATGCTTGCCCCTGGCTCTGCTA
102711 P C A ATGACGTGGCAGACCGACCAACACATACTCTACY
102711 P T A CGCGCCGAGGTGACCAACACATACTCTACTY
102711 T C A GGATAGTAGAGTATGTGTTGGTCGAGCAGAGCCAGGGGCAAGCATCGTA
102711 T T A GGATAGTAGAGTATGTGTTGGTCAAGCAGAGCCAGGGGCAAGCATCGTA
102711 IS [CT] GAAAGTGGCACTCATCCGCATACAGCTGCTACATGTACGATGCTTGCCCCTGGCTCTGCT[CT]GACCAACACATACTCTACTATCCTACTAATCAAACAAAAAAGCCAAGAAAGTTATGCTCA ctg14243 19
102720 I A GACCCCATTTGGGCTCCATTGTGGGGT
102720 P G A ATGACGTGGCAGACGGTGCTCAGAGCCCY
102720 P A A CGCGCCGAGGAGTGCTCAGAGCCCY
102720 T G A TGGGGGGCTCTGAGCACCCCCCACAATGGAGCCCAAATGGGGTCCT
102720 T A A TGGGGGGCTCTGAGCACTCCCCACAATGGAGCCCAAATGGGGTCCT
102720 IS [GA] CTGTGAGCTCCTCCTCGTCTTCTGGGCTCAGGAGGACCCCATTTGGGCTCCATTGTGGGG[GA]GTGCTCAGAGCCCCCCACACTTCTGGCCCACCAGCCTTTGGCTCCTAGACAGCAAACACA ctg17241 X
102724 I S ACAACCTTGACCACCTCCTCCAGTGGCT
102724 P C S ATGACGTGGCAGACGTGTCCTTGGCCAGTY
102724 P T S CGCGCCGAGGATGTCCTTGGCCAGTY
102724 T C S CCACACTGGCCAAGGACAGCCACTGGAGGAGGTGGTCAAGGTTGTGA
102724 T T S CCACACTGGCCAAGGACATGCCACTGGAGGAGGTGGTCAAGGTTGTGA
102724 IS [CT] CCCACCGGCTGAGGGTGGAGCACTTCATGAACCACAGCATCACCACACTGGCCAAGGACA[CT]GCCACTGGAGGAGGTGGTCAAGGTTGTGACCTCCACAGACGTGGCCGAGTATCCCTTGGT ctg15907 6 CLCNKB
102737 I A GTAGATAGGGGTTAAGCTGATGTATTTAGAAAGTTAATAATAATTTAAAATTCAAACTGA
102737 P G A ATGACGTGGCAGACGTCCATCTTTGAACCACAT
102737 P C A CGCGCCGAGGCTCCATCTTTTGAACCACAY
102737 T G A TTTCTGTGGTTCAAAGATGGAGTCAGTTTGAATTTTAAATTATTATTAACTTTCTAAATACATCAGCTTAACCCCTATCTAC
102737 T C A TTTCTGTGGTTCAAAGATGGAGTCAGTTTGAATTTTAAATTATTATTAACTTTCTAAATACATCAGCTTAACCCCTATCTAC
102737 IS [GC] GTAGATAGGGGTTAAGCTGATGTATTTAGAAAGTTAATAATAATTTAAAATTCAAACTGA[GC]TCCATCTTTTGAACCACAGAAAACATCAGTGAAGCAGAGCCACAGAATCACACAGTATTT ctg15907 6
102744 I S TTGGAGGTTTCCATTAAGTAAATCATTTTTCCATAAAGTTGTATTATGTCTTA
102744 P G S ATGACGTGGCAGACCAACGAGATAGCATGTCATY
102744 P A S CGCGCCGAGGTAACGAGATAGCATGTCATCY
102744 T G S CAAGGATGACATGCTATCTCGTTGAAGACATAATACAACTTTATGGAAAAATGATTTACTTAATGGAAACCTCCAAAC
102744 T A S CAAGGATGACATGCTATCTCGTTAAAGACATAATACAACTTTATGGAAAAATGATTTACTTAATGGAAACCTCCAAAC
102744 IS [GA] CATATGCAGAGTACTCCTGTGGGTGCTTAAACTTTCACAAGGATGACATGCTATCTCGTTGCAJAAGACATAATACAACTTTATGGAAAAATGATTTACTTAATGGAAACCTCCAAACTTCTTT ctg15907 6
102746 I S CACAGGAATGGTAGGGACACTTGGAGTTTTTTTTCTTCTCTC
102746 P C S ATGACGTGGCAGACGGGAAATTTAGGTGTTGGTY
102746 P A S CGCGCCGAGGTGGAAATTTAGGTGTTGGTY
102746 T C S CTCCACCACAACCTAAATTTCCCAGAGAAGAAAAAAAACTCCAAGTGTCCCTACCATTCCTGTGGT
102746 T A S CTCCACCACAACCTAAATTTCCAAGAGAAGAAAAAAAACTCCAAGTGTCCCTACCATTCCTGTGGT
102746 IS [CA] GCAGGAACAGACTCCGGGTCATATGATTCCTTCAAACTCTCCCACCAACACCTAATTTCC[CA]AGAGAAGAAAAAAAACTCCAAGTGTCCCTACCATTCCTGTGGTCTTCGCTTTAGGATTCT ctg15907 6
102755 I A CCCTCATACAAGTTCGTTGTCAGACTCATGAGGCCT
102755 P C A ATGACGTGGCAGACCATTTTGGACAGTCCAAAGY
102755 P A A CGCGCCGAGGAATTTTGGACAGTCCAAAGTY
102755 T C A ACGGACTTTGGACTGTCCAAAATGGGCCTCATGAGTCTGACAACGAACTTGTATGAGGGTC
102755 T A A ACGGACTTTGGACTGTCCAAAATTGGCCTCATGAGTCTGACAACGAACTTGTATGAGGGTC
102755 IS [CA] TTCCCCGGGCATCCTTTTCAATATGACCCTCATACAAGTTCGTTGTCAGACTCATGAGGCC[CA]ATTTTGGACAGTCCAAAGTCCGTGAGCTTGATGTGCCCCATGGATGTAATTAGGAGGCTG ctg15907 6
102771 I S GAGAAGATGAAAGTGAGAAAGTTTTCCTCTAACCTAAGGAAGTACCTCTT
102771 P T S CGCGCCGAGGACCCTCATACACTCAGAAY
102771 P C S ATGACGTGGCAGACGCCCTCATACACTCAGAY
102771 T T S ACAGTTCTGAGTGTATGAGGGTAGAGGTACTTCCTTAGGTTAGAGGAAAACTTTCTCACTTTCATCTTCTCCT
102771 T C S ACAGTTCTGAGTGTATGAGGGCAGAGGTACTTCCTTAGGTTAGAGGAAAACTTTCTCACTTTCATCTTCTCCT
102771 IS [TC] GCAGGAAGCTGGGAAACACAAAGGAATGGTAAGCAGGAACAGTTCTGAGTGTATGAGGG[TC]AGAGGTACTTCCTTAGGTTAGAGGAAAACTTTCTCACTTTCATCTTCTCCTTTTAAAGAT ctg15907 6
102778 I A CCAGGGTTCACCTCCCTGGGGACAT
102778 P C A CGCGCCGAGGCTAAAATCAGACTCATCCCCY
102778 P G A ATGACGTGGCAGACGTAAAATCAGACTCATCCCCY
102778 T C A CCCTGGGGATGAGTCTGATTTTAGTGTCCCCAGGGAGGTGAACCCTGGAG
102778 T G A CCCTGGGGATGAGTCTGATTTTACTGTCCCCAGGGAGGTGAACCCTGGAG
102778 IS [CG] AACTCTCCAAGCTCCACCCCTTCAGCCTGCCCGACTCCAGGGTTCACCTCCCTGGGGACA[CG]TAAAATCAGACTCATCCCCAGGGATGTCCCTCTCAAAGTTGGCACTTCCTTGAGGAAGAG ctg15907 6
102803 I S ACTCCCCCACAGCAAGTTTCATTCAGCA
102803 P A S CGCGCCGAGGTACAGAGCAGGTCTTAAGAY
102803 P G S ATGACGTGGCAGACCACAGAGCAGGTCTTAAGY
102803 T A S GAACTCTTAAGACCTGCTCTGTAGCTGAATGAAACTTGCTGTGGGGGAGTTA
102803 T G S GAACTCTTAAGACCTGCTCTGTGGCTGAATGAAACTTGCTGTGGGGGAGTTA
102803 IS [AG] CCCTTTTTTGGTTGTAGCACACAAACAGCTATTTTTGTGAACTCTTAAGACCTGCTCTGT[AG]GCTGAATGAAACTTGCTGTGGGGGAGTTAAATATTAATATTAATCTTCTCTTTTAGGTTT ctg15907 6
102814 I S GGGCAGAGTGCAGCTCTGGAAGGGGC
102814 P T S CGCGCCGAGGAGCAGTGCAGCAAGTGGGY
102814 P A S ATGACGTGGCAGACTCAGTGGACAAGTGGGY
102814 T T S TCTACCCACTTGTCCACTGTCCCCTTCCAGAGCTCCACTCTCCCCAG
102814 T A S TCTACCCACTTGTCCACTGACCCCTTCCAGAGCTCCACTCTCCCCAG
102814 IS [TA] ATGTTGGTCTTTGCTGACAAAACCCTATAATTGGTGTTGGCTCTACCCACTTGTCCACTGT[TA]CCCCTTCCAGAGCTCCACTCTCCCCAGATCCAAATGGTGGTGCTTAAATTTGGGCAGGAA ctg25099 7
102835 I A GCCACACAGCATACTAGGTAACAGAAAGCCATAAATTAAAAATAAAAAAAAGGT
102835 P C A ATGACGTGGCAGACCAAGCAAAATTCTGTTGTTTTTY
102835 P A A CGCGCCGAGGAAAGCAAAATTCTGTTGTTTTTY
102835 T C A AAGAAAAAACAACAAGAATTTTGCTTGCCTTTTTTTTATTTTTAATTTATGGCTTTCTGTTACCTGGTATGCTGTGTGGCCT
102835 T A A AAGAAAAAACAACAAGAATTTTGCTTTCCTTTTTTTTATTTTTAATTTATGGCTTTCTGTTACCTGGTATGCTGTGTGGCCT
102835 IS [CA] TCATCAGGCCACACAGCATACTAGGTAACAGAAAGCCATAAATTAAAAATAAAAAAAAGG[CA]AAGCAAAATTCTTGTTGTTTTTTCTTATCTCTGTTCCCAGTCCTATTGCGCTATTTGGAG ctg15247 7
102837 I S CGCCCGCGGCCTCCGGT
102837 P C S ATGACGTGGCAGACGACCTGGCGAAGGAY
102837 P G S CGCGCCGAGGCACCTGGCGAAGGAY
102837 T C S GGGCTCCTTGGCCAGGTCCCGGAGGCCGCGGGCGGG
102837 T G S GGGCTCCTTGGCCAGGTGCCGGAGGCCGCGGGCGGG
102837 IS [CG] ACGGGGCCGACTCCGCGCAGGGTGGTAGCAGGGGCGCCCCGCGGGGCTCCTTCGCCAGGT[CG]CCGGAGGCCGCGGGCGGGCCGTTTCCCAAACATCGTGCTCTGGACTTTCAGAGGCTGAA MULTIPLE 12
104608 I S GGCCCAAGTGAAACCAGCACCTAAAACCTTAAGTT
104608 P T S CGCGCCGAGGAAGACATCATACAGAGTGATAGY
104608 P G S ATGACGTGGCAGACAGACATCATACAGAGTGATAGY
104608 T T S CACACTATCACTCTGTATGATGTCTTACTTAAGGTTTTAGGTGCTGGTTTCACTTGGGCCAA
104608 T G S CACACTATCACTCTGTATGATGTCTGACTTAAGGTTTTAGGTGCTGGTTTCACTTGGGCCAA

FIGURE 129G

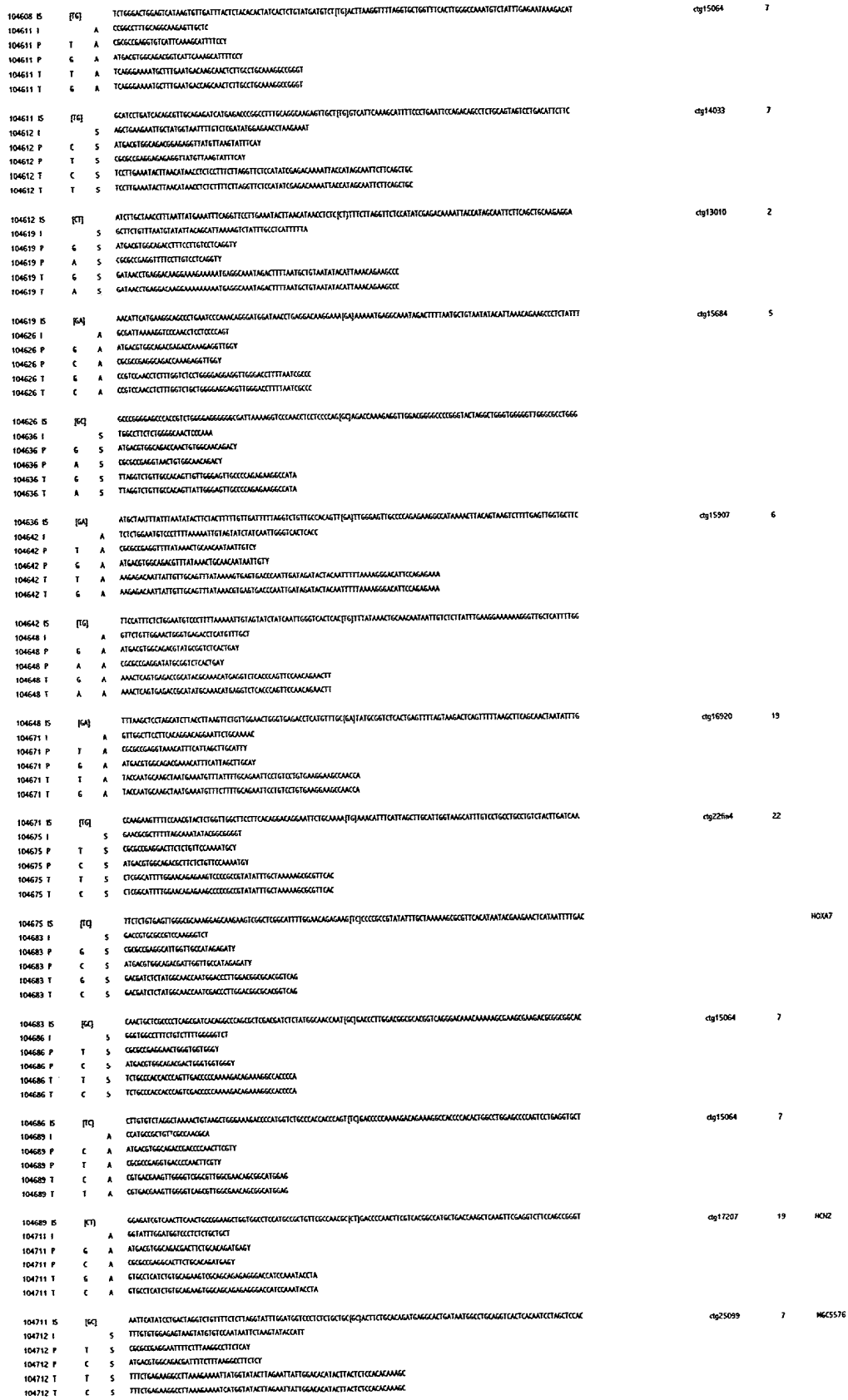
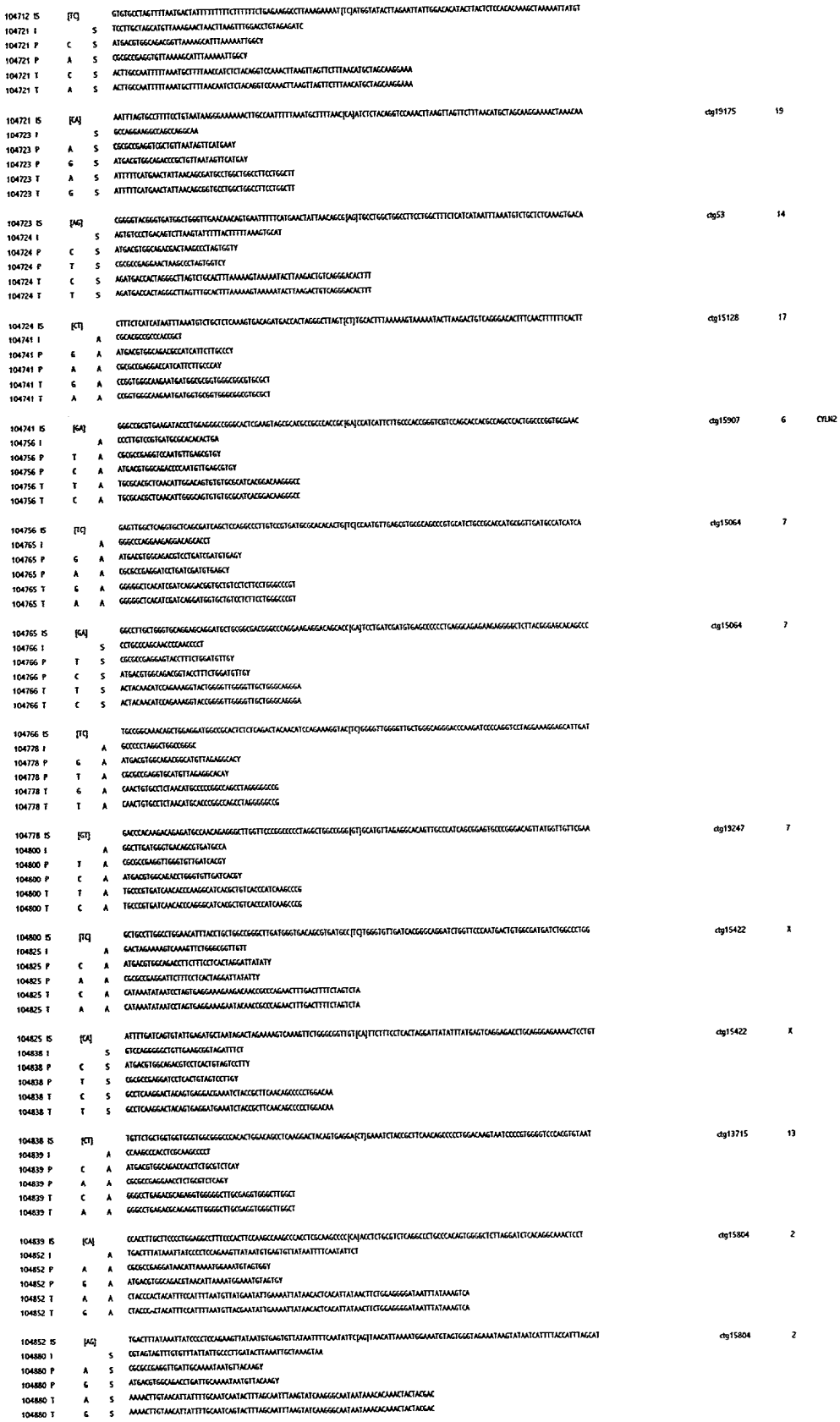
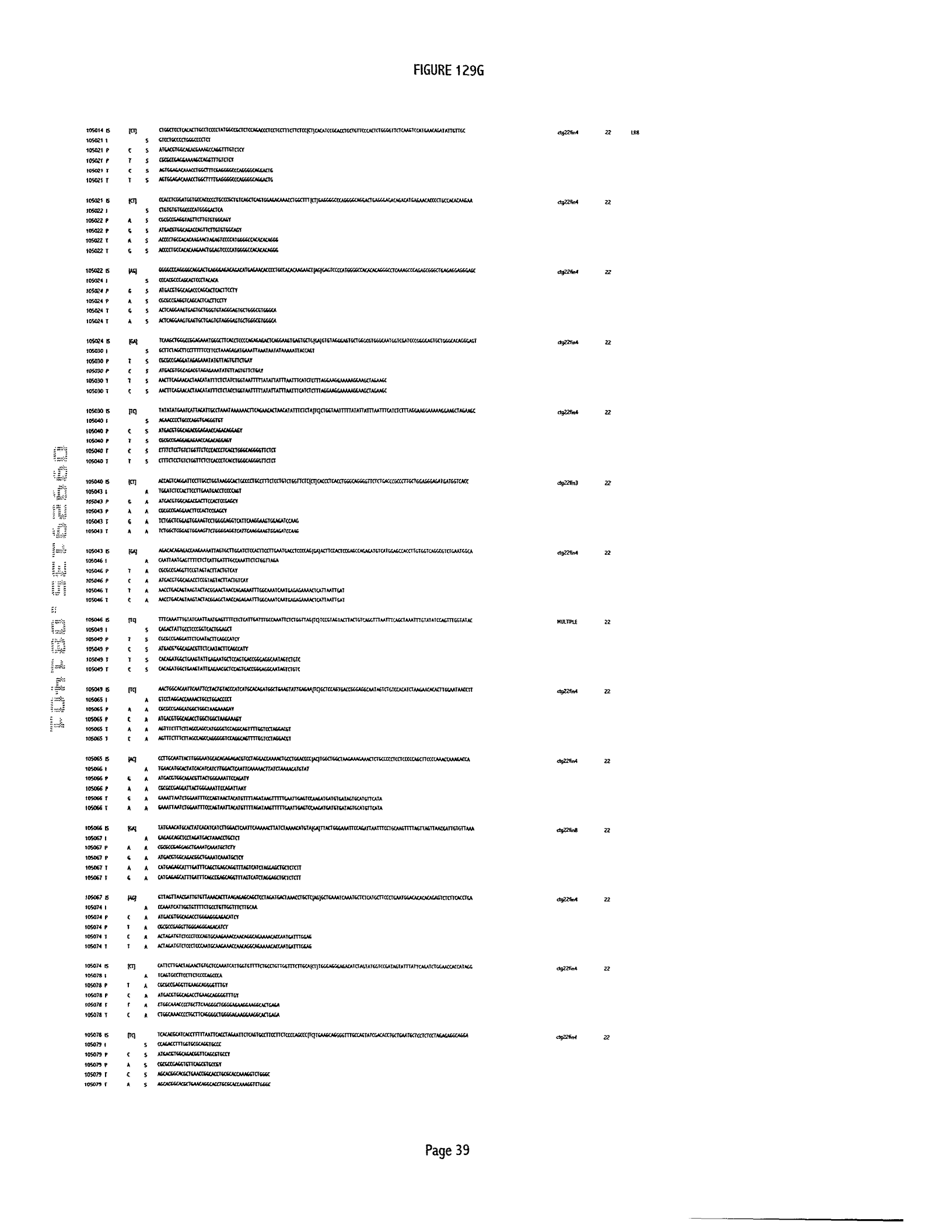

104608 IS [TG] TCTGGGACTGGAGTCATAAGTGTTGATTTACTCTACACACTATCACTCTGTATGATGTCT[TG]ACTTAAGGTTTTAGGTGCTGGTTTCACTTGGGCCAAATGTCTATTTGAGAATAAAGACAT ctg15064 7
104611 I A CCGGCCTTTGCAGGCAAGAGTTGCTC
104611 P T A CGCGCCGAGGTGTCATTCAAAGCATTTTCCY
104611 P G A ATGACGTGGCAGACGGTCATTCAAAGCATTTTCCY
104611 T T A TCAGGGAAAATGCTTTGAATGACAAGCAACTCTTGCCTGCAAAGGCCGGGT
104611 T G A TCAGGGAAAATGCTTTGAATGACGAGCAACTCTTGCCTGCAAAGGCCGGGT
104611 IS [TG] GCATCCTGATCACAGGCTTGCAGAGATCATGAGAGCCGGCCTTTGCAGGCAAGAGTTGCT[TG]GTCATTCAAAGCATTTTCCCTGAATTCCAGACAGCCTCTGCAGTAGTCCTGACATTCTTC ctg14033 7
104612 I S AGCTGAAGAATTGCTATGGTAATTTTGTCTCGATATGGAGAACCTAAGAAAT
104612 P C S ATGACGTGGCAGACGGAGAGGTTATGTTAAGTATTTCAY
104612 P T S CGCGCCGAGGAGACAGGTTATGTTAAGTATTTCAY
104612 T C S TCCTTGAAATACTTAACATAACCTCTCCTTTCTTAGGTTCTCCATATCGAGACAAAATTACCATAGCAATTCTTCAGCTGC
104612 T T S TCCTTGAAATACTTAACATAACCTCTCTTTTCTTAGGTTCTCCATATCGAGACAAAATTACCATAGCAATTCTTCAGCTGC
104612 IS [CT] ATCTTGCTAACCTTTAATTATGAAATTTCAGGTTCCTTGAAATACTTAACATAACCTCTC[CT]TTTCTTAGGTTCTCCATATCGAGACAAAATTACCATAGCAATTCTTCAGCTGCAAGAGGA ctg13010 2
104619 I S GCTTCTGTTTAATGTATATTACAGCATTAAAAGTCTATTTGCCTCATTTTTA
104619 P G S ATGACGTGGCAGACCTTTCCTTGTCCTCAGGTY
104619 P A S CGGCCCAGGTTTTCCTTGTCCTCAGGTY
104619 T G S GATAACCTGAGGACAAGGAAAGAAAAATGAGGCAAATAGACTTTTAATGCTGTAATATACATTAAACAGAAGCCC
104619 T A S GATAACCTGAGGACAAGGAAAAAAAAATGAGGCAAATAGACTTTTAATGCTGTAATATACATTAAACAGAAGCCC
104619 IS [GA] AACATTCATGAAGGCAGCCCTGAATCCCAAACAGGGATGGATAACCTGAGGACAAGGAAA[GA]AAAAATGAGGCAAATAGACTTTTAATGCTGTAATATACATTAAACAGAAGCCCTCTATTT ctg15684 5
104626 I A GCSATTAAAAGTCCCAACCTCCTCCCCAGT
104626 P G A ATGACGTGGCAGACGAGACCAAAGAGGTTGGY
104626 P C A CGCGCCGAGGCAGACCAAAGAGGTTGGY
104626 T G A CCSTCCAACCTCTTGGTCTCCTGGGGAGGAGGTTGGGACCTTTTAATCGCCC
104626 T C A CCSTCCAACCTCTTGGTCTGCTGGGGAGGAGGTTGGGACCTTTTAATCGCCC
104626 IS [GC] GCCCGGGGAGCCCACCGTCTGGGGAGGGGGGGCGATTAAAAGGTCCCAACCTCCTCCCCAG[GC]AGACCAAAGAGGTTGGACGGGGCCCCGGGTACTAGGCTGGGTGGGGGTTGGGCGCCTGGG
104636 I S TGGCCTTCTCTGGGGCAACTCCCAAA
104636 P G S ATGACGTGGCAGACCAACTGTGGCAACAGACY
104636 P A S CGCGCCGAGGTAACTGTGGCAACAGACY
104636 T G S TTAGGTCTGTTGCCACAGTTGTTGGGAGTTGCCCCAGAGAAGCCATA
104636 T A S TTAGGTCTGTTGCCACAGTTATTGGGAGTTGCCCCAGAGAAGCCATA
104636 IS [GA] ATGCTAATTATTATTAATATACTTCTACTTTTTGTTGATTTTTAGGTCTGTTGCCACAGTT[GA]TTGGGAGTTGCCCCAGAGAAGGCCATAAAACTTACAGTAAGTCTTTTGAGTTGGTGCTTC ctg15907 6
104642 I A TCTCTGGAATGTCCTTTTAAAAATTGTAGTATCTATCAATTGGGTCACTCAC
104642 P T A CGCGCCGAGGTTTTATAAACTGCAACAATAATTGTCY
104642 P G A ATGACGTGGCAGACGTTTATAAACTGCAACAATAATTGTY
104642 T T A AAGAGACAATTATTGTTGCAGTTTATAAAAGTGAGTGACCCAATTGATAGATACTACAATTTTTAAAAGGGACATTCCAGAGAAA
104642 T G A AAGAGACAATTATTGTTGCAGTTTATAAACGTGAGTGACCCAATTGATAGATACTACAATTTTTAAAAGGGACATTCCAGAGAAA
104642 IS [TG] TTCCATTTCTCTGGAATGTCCCTTTAAAAATTGTAGTATCTATCAATTGGGTCACTCAC[TG]TTTATAAACTGCAACAATAATTGTCTCTTATTTGAAGGAAAAAAGGGTTGTCTCATTTTGG
104648 I A GTTCTGTTGGAACTGGGTGAGACCTCATGTTTGCT
104648 P G A ATGACGTGGCAGACGTATGCGGTCTCACTGAY
104648 P A A CGCGCCGAGGATATGCGGTCTCACTGAY
104648 T G A AAACTCAGTGAGACCGCATATGCAAACATGAGGTCTCACCCAGTTCCAACAGAACTT
104648 T A A AAACTCAGTGAGACCGCATATGCAAACATGAGGTCTCACCCAGTTCCAACAGAACTT
104648 IS [GA] TTTAAGCTCCTAGCATCTTACCTTAAGTTCTGTTGGAACTGGGTGAGACCTCATGTTTGC[GA]TATGCGGTCTCACTGAGTTTTAGTAAGACTCAGTTTTTAAGCTTCAGCAACTAATATTTG ctg16920 19
104671 I A GTTGGCTTCCTTCACAGGACAGGAATTCTGCAAAAC
104671 P T A CGCGCCGAGGTAAACATTTCATTAGCTTGCATTY
104671 P G A ATGACGTGGCAGACGAAACATTTCATTAGCTTGCAY
104671 T T A TACCAATGCAAGCTAATGAAATGTTTATTTTGCAGAATTCCTGTCCTGTGAAGGAAGCCAACCA
104671 T G A TACCAATGCAAGCTAATGAAATGTTTCTTTTGCAGAATTCCTGTCCTGTGAAGGAAGCCAACCA
104671 IS [TG] CCAAGAAGTTTCCAAGGTACTCTGGTTGGCTCCTTCACAGGACAGGAATTCTGCAAAA[TG]AAACATTTCATTAGCTTGCATTGGTAAGCATTTGTCCTGCCTGCCTGTCTACTTGATCAA ctg226in4 22
104675 I S GAACGCGCTTTTTAGCAAATATACGGCGGGGT
104675 P T S CGCGCCGAGGACTTCTCTGTTCCAAAATGCY
104675 P C S ATGACGTGGCAGACGCTTCTCTGTTCCAAAATGY
104675 T T S CTCGGCATTTTGGAACAGAGAAGTCCCCGCCGTATATTTGCTAAAAAGCGGGTTCAC
104675 T C S CTCGGCATTTTGGAACAGAGAAGCCCCCGCCGTATATTTGCTAAAAAGCGGGTTCAC
104675 IS [TG] TTCTCTGTGAGTTGGGCGCAAAGGAGCAAGAAGTCGGCTCGGCATTTTGGAACAGAGAAG[TG]CCCCCGCCGTATATTTGCTAAAAAGCGGGTTCACATAATACGAAGAACTCATAATTTTGAC HOXA7
104683 I S GACCGTGCGCCGTCCAAGGGTCT
104683 P G S CGCGCCGAGGCATTGGTTGCCATAGAGATY
104683 P C S ATGACGTGGCAGACGATTGGTTGCCATAGAGATY
104683 T G S GACGATCTCTATGGCAACCAATGGACCCTTGGACGGCGCACGGTCAG
104683 T C S GACGATCTCTATGGCAACCAATGGACCCTTGGACGGCGCACGGTCAG
104683 IS [GC] CAACTGCTCGCCCCTCAGCGATCACAGGCCCAGCGCTCGACGATCTCTATGGCAACCAAT[GC]GACCCTTGGACGGCGCACGGTCAGGGACAAACAAAAAGCGAAGCGAGCGCGGCGCAC ctg15064 7
104686 I S GGGTGGCCCTTTCTGTCTTTTGGGGGTCT
104686 P T S CGCGCCGAGGAACTGGGTGGTGGGY
104686 P C S ATGACGTGGCAGACGACTGGGTGGTGGGY
104686 T T S TCTGCCCACACCCAGTTGACCCCCAAAAGACAGAAAAGGCCACCCCA
104686 T C S TCTGCCCACACCCAGTCGACCCCAAAAGACAGAAAAGGCCACCCCA
104686 IS [TC] CTTGTGTCTAGGCTAAAACTGTAAGCTGGGGAAAGACCCCATGGTCTGCCCACCACCCAGT[TC]GACCCCCAAAAGACAGAAAGGCCACCCCACACTGGCCTGGAGCCCCAGTCCTGAGGTGCT ctg15064 7
104689 I A CCATGCCGCTGT*CGCCAACAGCA
104689 P C A ATGACGTGGCAGACCGACCCCAACTTCGTY
104689 P T A CGCGCCGAGGTGACCCCAACTTCGTY
104689 T C A CGTGACCAAGTTGGGGTCGGCGTTGGCGAACAGCGGCATGGAG
104689 T T A CGTGACCAAGTTGGGGTCAACGTTGGCGAACAGCGGCATGGAG
104689 IS [CT] GGAGATCGTCAACTTCAACTGCGGGAAGCTGGTGGCCTCCATGCCGCTGTTCGCCAACGC[CT]GACCCCAACTTCGTCACGGCCATGCTGACCAAGCTCAAGTTCGAGGTCTTCCAGCCGGGT ctg17207 19 HCN2
104711 I A GGTATTTGGATGGTCCCTCTCTGCTGCT
104711 P G A ATGACGTGGCAGACGACTTCTGCACAGATGAGY
104711 P C A CGCGCCGAGGCACTTCTGCACAGATGAGY
104711 T G A GTGCCTCATCTGTGCAGAAGTGCGAGCAGAGAGGGACCATCCAAATACCTA
104711 T C A GTGCCTCATCTGTGCAGAAGTGGCAGCAGAGAGGGACCATCCAAATACCTA
104711 IS [GC] AATTCATATCCTGACTAGGTCTGTTTTCTCTTAGGTATTTGGATGGTCCCTCTCTGCTGC[GC]ACTTCTGCACAGATGAGGCACTGATAATGGCCTGCAGGTCACTCACAATCCTAGCTCCAC ctg25099 7 MGC5576
104712 I S TTTGTGTGGAGAGTAAGTATGTGTCCAATAATTCTAAGTATACCATT
104712 P T S CGCGCCGAGGAATTTTCTTTAAGGCCTTCTCAY
104712 P C S ATGACGTGGCAGACGATTTTCTTTAAGGCCTTCTCY
104712 T T S TTTCTGAGAAGGCCTTAAAGAAAATTATGGTATACTTAGAATTATTGGAACACATACTTACTCTCCACACAAAGC
104712 T C S TTTCTGAGAAGGCCTTAAAGAAAATCATGGTATACTTAGAATTATTGGAACACATACTTACTCTCCACACAAAGC

FIGURE 129G


104712 IS [TC] GTGTGCCTAGTTTTAATGACTATTTTTTTTTTCTTTTTTCTGAGAAGGCCTTAAAGAAAAT[TC]ATGGTATACTTAGAATTATTGGACACATACTTACTCTCCACACAAAGCTAAAAATTATGT
104721 I S TCCTTGCTAGCATGTTAAAGAACTAACTAAGTTTGGACCTGTAGAGATC
104721 P C S ATGACGTGGCAGACGGTTAAAAGCATTTAAAAATTGGCY
104721 P A S CGCGCCGAGGTGTTAAAAGCATTTAAAAATTGGCY
104721 T C S ACTTGCCAATTTTTAAATGCTTTTAACCATCTCTACAGGTCCAAACTTAAGTTAGTTCTTTAACATGCTAGCAAGGAAA
104721 T A S ACTTGCCAATTTTTAAATGCTTTTAACAATCTCTACAGGTCCAAACTTAAGTTAGTTCTTTAACATGCTAGCAAGGAAA
104721 IS [CA] AATTTAGTGCCTTTTCCTGTAATAAGGGAAAAACTTGCCAATTTTTAAATGCTTTTAAC[CA]ATCTCTACAGGTCCAAACTTAAGTTAGTTCTTTAACATGCTAGCAAGGAAAACTAAACAA ctg15175 19
104723 I S GCCAGGAAGGCCAGCCAGGCAA
104723 P A S CGCGCCGAGGTCGCTGTTAATAGTTCATGAAY
104723 P G S ATGACGTGGCAGACCCGCTGTTAATAGTTCATGAY
104723 T A S ATTTTTCATGAACTATTAACAGCGATGCCTGGCTGGCCTTCCTGGCTT
104723 T G S ATTTTTCATGAACTATTAACAGCGGTGCCTGGCTGGCCTTCCTGGCTT
104723 IS [AG] CGGGGTACGGGTGATGGCTGGGTTGAACAACAGTGAATTTTTCATGAACTATTAACAGCG[AG]TGCCTGGCTGGCCTTCCTGGCTTTCTCATCATAATTTAAATGTCTGCTCTCAAAGTGACA ctg53 14
104724 I S AGTGTCCCTGACAGTCTTAAGTATTTTTACTTTTTAAAGTGCAT
104724 P C S ATGACGTGGCAGACGACTAAGCCCTAGTGGTCY
104724 P T S CGCGCCGAGGAACTAAGCCCTAGTGGTCY
104724 T C S AGATGACCACTAGGGCTTAGTCTGCACTTTAAAAAGTAAAAATACTTAAGACTGTCAGGGACACTTT
104724 T T S AGATGACCACTAGGGCTTAGTTTGCACTTTAAAAAGTAAAAATACTTAAGACTGTCAGGGACACTTT
104724 IS [CT] CTTTCTCATCATAATTTAAATGTCTGCTCTCAAAGTGACAGATGACCACTAGGGCTTAGT[CT]TGCACTTTAAAAAGTAAAAATACTTAAGACTGTCAGGGACACTTTCAACTTTTTTCACTT ctg15128 17
104741 I A CGCACGCCGCCCACCGCT
104741 P G A ATGACGTGGCAGACGCCATCATTCTTGCCCY
104741 P A A CGCGCCGAGGACCATCATTCTTGCCCAY
104741 T G A CCGGTGGGCAAGAATGATGGCGCGGTGGGCGGCGTGCGCT
104741 T A A CCGGTGGGCAAGAATGATGGTGCGGTGGGCGGCGTGCGCT
104741 IS [GA] GGGCCGCGTGAAGATACCCTGGAGGGCCGGGCACTCGAAGTAGCGCAGCCGCCGCCACCGC[GA]CCATCATTCTTGCCCACCGGGTCGTCCAGCACCACGCCAGCCCACTGGCCCGGTGCGAAC ctg15907 6 CYLN2
104756 I A CCCTTGTCCGTGATGCGCACACACTGA
104756 P T A CGCGCCGAGGTCCAATGTTGAGCGTGY
104756 P C A ATGACGTGGCAGACCCCAATGTTGAGCGTGY
104756 T T A TGCGCACGCTCAACATTGGACAGTGTGTGCGCATCACGGACAAGGGCC
104756 T C A TGCGCACGCTCAACATTGGGCAGTGTGTGCGCATCACGGACAAGGGCC
104756 IS [TC] GAGTTGGCTCAGGTGCTCAGCGATCAGCTCCAGGCCCTGTCCGTGATGCGCACACACTG[TC]CCAATGTTGAGCGTGGGCAGCCCGTGCATCTGCCGCACCATGCGGTTGATGCCATCATCA ctg15064 7
104765 I A GGGCCCAGGAAGAGGACAGCACCT
104765 P G A ATGACGTGGCAGACGTCCTGATCGATGTGAGY
104765 P A A CGCGCCGAGGATCCTGATCGATGTGAGCY
104765 T G A GGGGGCTCACATCGATCAGCACGGTGCTGTCCTCTTCCTGGGCCCGT
104765 T A A GGGGGCTCACATCGATCAGGATGGTGCTGTCCTCTTCCTGGGCCCGT
104765 IS [GA] GGCCTTGCTGGGTGCAGGAGCAGGATGCTGCGGCGACGGGCCCAGGAAGAGGACAGCACC[GA]TCCTGATCGATGTGAGCCCCCTCAGGCAGAGAAGAGGGGCTCTTACGGGAGCACAGCCC ctg15064 7
104766 I S CCTGCCCAGCAACCCCAACCCCT
104766 P T S CGCGCCGAGGAGTACCTTCTGGATGTTGY
104766 P C S ATGACGTGGCAGACGGTACCTTCTGGATGTTGY
104766 T T S ACTACAACATCCAGAAAGGTACTGGGGTTGGGGTTGCTGGGCAGGGA
104766 T C S ACTACAACATCCAGAAAGGTACCGGGGTTGGGGTTGCTGGGCAGGGA
104766 IS [TC] TGCCGGCAAACAGCTGGAGGATGGCCGCACTCTCTCAGACTACAACATCCAGAAAGGTAC[TC]GGGGTTGGGGTTGCTGGGCAGGGACCCAAGATCCCCAGGTCCTAGGAAAGGAGCATTGAT
104778 I A GCCCCCTAGGCTGGCCGGGC
104778 P G A ATGACGTGGCAGACGGCATGTTAGAGGCACY
104778 P T A CGCGCCGAGGTGCATGTTAGAGGCACAY
104778 T G A CAACTGTGCCTCTAACATGCCCCCGGCCAGCCTAGGGGGCCG
104778 T T A CAACTGTGCCTCTAACATGCAACCGGCCAGCCTAGGGGGCCG
104778 IS [GT] GACCCACAAGACAGAGATGCCAACAGAGGGCTTGGTTCCCGGCCCCCTAGGCTGGCCGGG[GT]GCATGTTAGAGGCACAGTTGCCCATCAGCGGAGTGCCCGGGACAGTTATGGTTGTTCGAA ctg19247 7
104800 I A GGCTTGATGGGTGACAGCGTGATGCCA
104800 P T A CGCGCCGAGGTTGGGTGTTGATCACGY
104800 P C A ATGACGTGGCAGACCTGGGTGTTGATCACGY
104800 T T A TGCCCGTGATCAACACCCAAGGCATCACGCTGTCACCCATCAAGCCCG
104800 T C A TGCCCGTGATCAACACCCAGGGCATCACGCTGTCACCCATCAAGCCCG
104800 IS [TC] GCTGCCTTGGCCTGGAACATTTACCTGCTGGCCGGGCTTGATGGGTGACAGCGTGATGCC[TC]TGGGTGTTGATCACGGGCAGGATCTGGTTCCCAATGACTGTGGCGATGATCTGGCCCTGG ctg15422 X
104825 I A GACTAGAAAAGTCAAATTTCTGGGCGGTTGTT
104825 P C A ATGACGTGGCAGACCTTCTTCCTCACTAGGATTATATY
104825 P A A CGCGCCGAGGATTCTTTCCTCACTAGGATTATATY
104825 T C A CATAAATATAATCCTAGTGAGGAAAGAAGACAACCGCCCAGAACTTTGACTTTTCTAGTCTA
104825 T A A CATAAATATAATCCTAGTGAGGAAAGAATACAACCGCCCAGAACTTTGACTTTTCTAGTCTA
104825 IS [CA] ATTTTGATCAGTGTATTGAGATGCTAATAGACTAGAAAAGTCAAAGTTCTGGGCGGTTGT[CA]TTCTTTCCTCACTAGGATTATATTTATGAGTCAGGAGACCTGGAGGCAGAAAACTCCTGT ctg15422 X
104838 I S GTCCAGGGGGCTGTTGAAGCGGTAGATTTCT
104838 P C S ATGACGTGGCAGAGGTCCTCACTGTAGTCCTTY
104838 P T S CGCGCCGAGGATCCTCACTGTAGTCCTTGY
104838 T C S GCCTCAAGGACTACAGTGAGGACGAAATCTACCGCTTCAACAGCCCCCTGGACAA
104838 T T S GCCTCAAGGACTACAGTGAGGATGAAATCTACCGCTTCAACAGCCCCCTGGACAA
104838 IS [CT] TGTTCTGCTGGTGGTGGGTGGCGGGCCCACACTGGACAGCCTCAAGGACTACAGTGAGGAA[CT]GAAATCTACCGCTTCAACAGCCCCCTGGACAAGTAATCCCCCTGGGGTCCCACGTGTAAT ctg13715 13
104839 I A CCAAGCCCACCTCGCAAGCCCCT
104839 P C A ATGACGTGGCAGACCACCTCTGCGTCTCAY
104839 P A A CGCGCCGAGGAACCTCTGCGTCTCAGY
104839 T C A GGGCCTGAGAGCGCAGAGGTGGGGGCTTGCGAGGTGGGCTTGGCT
104839 T A A GGGCCTGAGAGCGCAGAGGTTGGGGCTTGCGAGGTGGGCTTGGCT
104839 IS [CA] CCACCTTGCTTCCCCTGGAGGCCTTTCCCACTTCCAAGCCAAGCCCACCTCGCAAGCCCC[CA]ACCTCTGCGTCTCAGGCCCTGCCCACAGTGGGGCTCTTAGGATCTCACAGGCAAACTCCT ctg15804 2
104852 I A TGACTTTATAAATTATCCCCTCCAGAAGTTATAATGTGAGTGTTATAATTTTCAATATTCT
104852 P A A CGCGCCGAGGATAACATTAAAATGGAAATGTAGTGGY
104852 P G A ATGACGTGGCAGACGTAACATTAAAATGGAAATGTAGTGY
104852 T A A CTACCCACTACATTTCCATTTTAATGTTATGAATATTGAAAATTATAACACTCACATTATAACTTCTGGAGGGGATAATTTATAAAGTCA
104852 T G A CTACCC-CTACATTTCCATTTTAATGTTACGAATATTGAAAATTATAACACTCACATTATAACTTCTGGAGGGGATAATTTATAAAGTCA
104852 IS [AG] TGACTTTATAAATTATCCCCTCCAGAAGTTATAATGTGAGTGTTATAATTTTCAATATTC[AG]TAACATTAAAATGGAAATGTAGTGGGTAGAAATAAGTATAATCATTTTACCATTTAGCAT ctg15804 2
104880 I S CGTAGTAGTTTGTGTTTATTATTGCCCTTGATACTTAAATTGCTAAAGTAA
104880 P A S CGCGCCGAGGTTGATTGCAAAATAATGTTACAAGY
104880 P G S ATGACGTGGCAGACCTGATTGCAAAATAATGTTACAAGY
104880 T A S AAAACTTGTAACATTATTTTGCAATCAATACTTTAGCAATTTAAGTATCAAGGGCAATAATAAACACAAACTACTACGAC
104880 T G S AAAACTTGTAACATTATTTTGCAATCAGTACTTTAGCAATTTAAGTATCAAGGGCAATAATAAACACAAACTACTACGAC

104880 IS	[AG]		TAAAACTGTCAACACAAATAGCTCCTTTCTCTCTAAAAACTTGTAACATTATTTTGCAATCA[AG]TACTTTAGCAATTTAAGTATCAAGGGCAATAATAAACACAAACTACTACGACACAGAATC	ctg15064	7	
104898 I		S	CCTCTGCACCTCCAGTTCTCCCCAGAATTCT			
104898 P	C	S	ATGACGTGGCAGACGCCTCCAGCTTCCTY			
104898 P	T	S	CGCGCCGAGGAGCTCCAGCTYCCTCY			
104898 T	C	S	GAAGGAGGAAGCTGGAGGCGAATTCTGGGGAGAACTGGAGGTGCAGAGGGT			
104898 T	T	S	GAAGGAGGAAGCTGGAGGTGAATTCTGGGGAGAACTGGAGGTGCAGAGGGT			
104898 IS	[CT]		AGAGCCCCCCAAGAAGCAAGCACCTCCCTCACCCCCTCCAAAGAAGGAGGAAGCTGGAGG[CT]GAATTCTGGGGAGAACTGGAGGTGCAGAGGGTGAAGTTCCTGGTAAGGATCCAGCCAGGT	ctg15804	2	
104907 I		A	GCGGCTGGCAGGGGGCAATGACT			
104907 P	G	A	ATGACGTGGCAGACGTGGGCATCTTCGTGY			
104907 P	A	A	CGCGCCGAGGATGGGCATCTTCGTGTY			
104907 T	G	A	CCGGACACGAAGATGCCCAGTCATTGCCCCCTGCCAGCCGCAG			
104907 T	A	A	CCGGACACGAAGATGCCCATGTCATTGCCCCCTGCCAGCCGCAG			
104907 IS	[GA]		CGTGTGGTCCGCTTCCTCAAGGGCAAGAGCATCGGGCTGCGGCTGGCAGGGGGCAATGAC[GA]TGGGCATCTTCGTGTCCGGGGTGCAGGCGGGCAGCCCGGCCGACGGGCACGGGCATCCAGG	ctg30	7	TIP3
104911 I		S	TCTGTTGGCTGTTTGTCTGCTCAGGTTGCTGT			
104911 P	C	S	ATGACGTGGCAGACGTATGGCTAGGGTGTTCTY			
104911 P	T	S	CGCGCCGAGGATATGGCTAGGGTGTTCTY			
104911 T	C	S	ATTAAGAACACCCTAGCCATACCAGCAACCTGAGCAGACAAACAGCCAACAGAAC			
104911 T	T	S	ATTAAGAACACCCTAGCCATATCAGCAACCTGAGCAGACAAACAGCCAACAGAAC			
104911 IS	[CT]		GCAGAAAAGGGGAAGGGCAGACATGGTAGGGGCCCCGACATTAACAACACCCTAGCCATA[CT]CAGCAACCTGAGCAGACAAACAGCCAACAGAACATCAGTCAAATAAAAGGGGTTTATGT	ctg30	7	
104914 I		S	ACTGAGCTTCCTCTGAAGCCTTGAAGGGTTTTCAGT			
104914 P	T	S	CGCGCCGAGGATCCAAGGAACAAAGGGY			
104914 P	C	S	ATGACGTGGCAGACGTCCAAGGAACAAAGGGY			
104914 T	T	S	TTTCCCCTTTGTTCCTTGGACTCGAAAACCCTTCAAGGCTTCAGAGGAAGCTCAGTGA			
104914 T	C	S	TTTCCCCTTTGTTCCTTGGACCTGAAAACCCTTCAAGGCTTCAGAGGAAGCTCAGTGA			
104914 IS	[TC]		AGCCAGTGCCAGGCCAGGTCCTCTGCACTCCTTTGTCTATTTTCCCCTTTGTTCCTTGGA[TC]CTGAAAACCCTTCAAGGCTTCAGAGGAAGCTCAGTGAGTTGATTCTCATGTACCGGGAGA	MULTIPLE	19	PGL
104917 I		A	CTTTGGGCTTCTTGGGTGGGCCTGTC			
104917 P	G	A	ATGACGTGGCAGACGTCCTGAGGACACTTCTY			
104917 P	T	A	CGCGCCGAGGTTCCTGAGGACACTTCTGY			
104917 T	G	A	AAGACAGAAGTGTCCTCAGGACACAGGCCCACCCAAGAAGCCCAAAGTC			
104917 T	T	A	AAGACAGAAGTGTCCTCAGGAAACAGGCCCACCCAAGAAGCCCAAAGTC			
104917 IS	[GT]		AATTATCAGTCTCTCTTATCTGTCACTTTCATTAGACTTTGGGCTCTTGGGTGGGCCTGTGGT[GT]TCCTGAGGACACTTCTGTCTTGCAAAGACAAGTCCACACAGGTTTAATGACTTCCCTAGA	ctg14243	19	
104918 I		A	GGTTTTAGACCATTCTGCAGCATTGACTTTGTTGAAAATT			
104918 P	A	A	CGCGCCGAGGATAGATTGTTCTTAAGTGTCAGATY			
104918 P	C	A	ATGACGTGGCAGACCTAGATTGTTCTTAAGTGTCAGAY			
104918 T	A	A	TAACATCTGACACTTAAGAACAATCTATATTTTCAACAAAGTCAATGCTGCAGAATGGTCTAAAACCTA			
104918 T	C	A	TAACATCTGACACTTAAGAACAATCTAGATTTTCAACAAAGTCAATGCTGCAGAATGGTCTAAAACCTA			
104918 IS	[AC]		AAGCCTTCCTGCTTATTTCTAGGTTTTAGACCATTCTGCAGCATTGACTTTGTTGAAAAT[AC]TAGATTGTTCTTAAGTGTCAGATGTTAATGTATTTAGAATGACATTAATATTTAGATGCCC	ctg16564	19	
104936 I		A	GCACAGCCCCATTCTCCCACACCAGAAT			
104936 P	A	A	CGCGCCGAGGAAGCAATGCTCCTTATGGY			
104936 P	G	A	ATGACGTGGCAGACGAGCAATGCTCCTTATGGY			
104936 T	A	A	TCATCCATAAGGAGCATTGCTTTTCTGGTGTGGGAGAATGGGGCTGTGCGA			
104936 T	G	A	TCATCCATAAGGAGCATTGCTCTTCTGGTGTGGGAGAATGGGGCTGTGCGA			
104936 IS	[AG]		GTTCAGAGCAGAGCGCAACTCCGGGGGCTGTCGCACAGCCCCATTCTCCCACACCAGAA[AG]AGCAATGCTCCTTATGGATGATTAATAGCCGGGCTTCTCCTGACCATGCGGCGCGTCCCT	ctg14007	17	
104940 I		S	ACAAGGTTTGCAAAGCGCTGCTGACACCC			
104940 P	A	S	CGCGCCGAGGTTAGACCTAGATGTAGAAGTCCY			
104940 P	C	S	ATGACGTGGCAGACGTAGACCTAGATGTAGAAGTCCY			
104940 T	A	S	TGAAGGACTTCTACATCTAGGTCTACGGTGTCAGCAGCGCTTTGCAAACCTTGTCA			
104940 T	C	S	TGAAGGACTTCTACATCTAGGTCTACGGTGTCAGCAGCGCTTTGCAAACCTTGTCA			
104940 IS	[AC]		ATTGGCTGCCTGGGCGAAGCAGGTACGTTTTCACCTGAAGGACTTCTACATCTAGGTCTA[AC]GGTGTCAGCAGCGCTTTGCAAACCTTGTCAACTGGCTTTCACAAGACCGTGAAAACCAA	ctg12475	11	
104942 I		S	GGTGGCCCCATCAGCCAGCCAGTATT			
104942 P	G	S	ATGACGTGGCAGACCACCATCTTTTCTGTGTAATAATGY			
104942 P	T	S	CGCGCCGAGGAACCATCTTTTCTGTGTAATAATGY			
104942 T	G	S	ACAGCATTATTACACAGAAAAGATGGTGATACTGGCTGGCTGATGGGGCCACCAT			
104942 T	T	S	ACAGCATTATTACACAGAAAAGATGGTTATACTGGCTGGCTGATGGGGCCACCAT			
104942 IS	[GT]		ATAATCTTAATAAATTGCCAAATTATTATACATACAGCATTATTACACAGAAAAGATGGT[GT]ATACTGGCTGGCTGATGGGGCCACCATGAGAATGCTCATCTGTCAGCTAACGCACACGAT	ctg14145	11	
104950 I		A	CCAGCCACCTTGGGGTTTCACCTTCCT			
104950 P	G	A	ATGACGTGGCAGACGTGTATTGAATAAAGTTCAGGACY			
104950 P	C	A	CGCGCCGAGGCTGTATTGAATAAAGTTCAGGACY			
104950 T	G	A	AAAGGTCCTGAACTTTATTCAATACAGCGAAGGTGAAACGCCAAGGTGGCTGCAG			
104950 T	C	A	AAAGGTCCTGAACTTTATTCAATACAGCGAAGGTGAAACGCCAAGGTGGCTGCAG			
104950 IS	[GC]		AGGAGAGAAACAGAGAAAGGCAGACAGTCTGGCTCCAGCCACCTTGGCGTTTCACCTTCC[GC]TGTATTGAATAAAGTTCAGGACCTTTGCAGGTGCAGCTCCCTCCACACCTGAGTCTTCA	ctg15064	7	
104952 I		S	GCACAGGTAGTGATGTAGATGATGATATGTCTGGGGATGAGAAT			
104952 P	C	S	ATGACGTGGCAGACGCAGGACAATGAGGTAAATTY			
104952 P	T	S	CGCGCCGAGGACAGGACAATGAGGTAAATTTY			
104952 T	C	S	ACTCAAATTTACCTCATTGTCCTGCTTCTCATCCCCAGACATATCATCATCTACATCACTACCTGTGCCT			
104952 T	T	S	ACTCAAATTTACCTCATTGTCCTGTTTCTCATCCCCAGACATATCATCATCTACATCACTACCTGTGCCT			
104952 IS	[CT]		GTATCATAACTTGAAACACAGAAAACAGAAATGGTAACTCAAATTTACCTCATTGTCCTG[CT]TTCTCATCCCCAGACATATCATCATCTACATCACTACCTGTGCCTTCAATGGCAAGAATA			
104954 I		S	ACCTATTGGAGTTCTAGTCAATGTTTTATCTTAAACCTAGGACAAGGGTAAATAACAT			
104954 P	C	S	ATGACGTGGCAGACGGTTCTCCCCTTTTCCTY			
104954 P	G	S	CGCGCCGAGGCG*TCTCCCCTTTTCCY			
104954 T	C	S	TCTGAGGAAAAGGGGAGAACCTGTTATTTACCCTTGTCCTAGGTTTAAGATAAAACATTCACTAGAACTCCAATAGGTTA			
104954 T	G	S	TCTGAGGAAAAGGGGAGAACGTGTTATTTACCCTTGTCCTAGGTTTAAGATAAAACATTCACTAGAACTCCAATAGGTTA			
104954 IS	[CG]		CTTAGGCAGTGAGAAAAAAGAATAAAAAAGGAAATAAAATTCTGAGGAAAAGGGGAGAAC[CG]TGTTATTTACCCTTGTCCTAGGTTTAAGATAAAACATTCACTAGAACTCCAATAGGTTAA			
105009 I		A	GGAGAAGAGGCAGGGCACAGACTGGT			
105009 P	G	A	ATGACGTGGCAGACGATTGTCCCCTCCTTGTY			
105009 P	A	A	CGCGCCGAGGAATTGTCCCCTCCTTGTY			
105009 T	G	A	CAAAACAAGGAGGGGCACAATCCCAGTCTGTGCCCTCGCTCCTTCTCCCC			
105009 T	A	A	CAAAACAAGGAGGGGCACAATTCCAGTCTGTGCCCTCGCTCCTTCTCCCC			
105009 IS	[GA]		CAGGCCCTGGGCTGGAAGCTTGGCTCCTGAGGGGGGAGAAGGAGGCAGGGCACAGACTGG[GA]AT767CCCCTCCTGTTTTGGTACTGGTCCCACCCACTGTGGTCCCCTGGGCCCTGACCC	ctg22fin4	22	
105014 I		S	AGAGTGGGAACAGCAGGTGCGGATGTGT			
105014 P	C	S	ATGACGTGGCAGACGGGAGAAGAAGGAGGAY			
105014 P	T	S	CGCGCCGAGGAGGACAAGAAAGGAGGAY			
105014 T	C	S	GACCCTCCTCCTTTCTTCTCCCCACATCCGCACCTGCTGTTCCCACTCTGG			
105014 T	T	S	GACCCTCCTCCTTTCTTCTCCTCACATCCGCACCTGCTGTTCCCACTCTGG			

FIGURE 129G


105014 IS [CT] CTGGCTCCTCACACTTGCCTCCCCTATGGCCGCTCTCCAGACCCTCCTCCTTTCTCTCCC[CT]CACATCCGCACCTGCTGTTCCCACTCTGGGGTCTCAAGTCCATGAACAGATATTGTTGC ctg22fin4 22 188
105021 I S GTCCTGCCCCTGGGCCCCTCT
105021 P C S ATGACGTGGCAGACGAAAGCCAGGTTTGTCTCY
105021 P T S CGCGCCGACGAAAAGCCAGGTTTGTCTCY
105021 T C S AGTGGAGACAAACCTGGCTTTCGAGGGGCCCAGGGGCACGACTG
105021 T T S AGTGGAGACAAACCTGGCTTTTGAGGGGCCCAGGGGCAGGACTG

105021 IS [CT] CCACCTCGGATGGTGCCACCCCCTGCCCGCTGTCAGCTCAGTGGAGACAAACCTGGCTTT[CT]GAGGGGCCCAGGGGCAGGACTGAGGCACACAGACATGAGAACACCCCTGCCACACAAGAA ctg22fin4 22
105022 I S CTGTGTGTGGGCCCCATGGGGACTCA
105022 P A S CGCGCCGAGGTAGTTCTTGTGTGGCAGY
105022 P G S ATGACGTGGCAGACCAGTTCTTGTGTGGCAGY
105022 T A S ACCCCTGCCACACAAGAACTAGAGTCCCCATGGGGCCACACACAGGG
105022 T G S ACCCCTGCCACACAAGAACTGGAGTCCCCATGGGGCCACACACAGGG

105022 IS [AG] GGGGCCTCAGGGGCAGGACTGAGGGAGACAGACATGAGAACACCCTGCCACACAAGAACT[AG]GAGTCCCCATGGGGCCACACACAGGGCCTCAAAGCCCAGAGCGGGCTGAGAGCAGGGAGC ctg22fin4 22
105024 I S CCCACGCCCAGCACTCCCTACACA
105024 P G S ATGACGTGGCAGACCCAGCACTCACTTCCTY
105024 P A S CGCGCCGAGGTCAGCACTCACTTCCTY
105024 T G S ACTCAGGAAGTGAGTGCTGGGTGTAGGCAGTGCTGGGCGTGGGCA
105024 T A S ACTCAGGAAGTGAGTGCTGAGTGTAGGGAGTGCTGGGCGTGGGCA

105024 IS [GA] TCAAGCTGGGCCGGAGAAATGGCGCTTCACCTCCCCAGAGAGACTCAGGAAGTGAGTGCTG[GA]GTGTAGGGAGTGCTGGCGCGTGGGCAATGGTCGATCCCGGGCAGTGCTGGGCACAGGGAGT ctg22fin4 22
105030 I S GCTTCTAGCTTCCTTTTTCCTTCCTAAAGAGATGAAATTAAATAATATAAAAATTACCAGT
105030 P T S CGCGCCGAGGATAGAGAAATATGTTAGTGTCTCGAY
105030 P C S ATGACGTGGCAGACGTAGAGAAATATGTTAGTGTCTCGAY
105030 T T S AACTTCAGAACACTAACATATTTCTCTATCTGGTAATTTTATATTATTTAATTTCATCTCTTTAGGAAGGAAAAGGAAGCTAGAAGC
105030 T C S AACTTCAGAACACTAACATATTTCTCTACCTGGTAATTTTATATTATTTAATTTCATCTCTTTAGGAAGGAAAAGGAAGCTAGAAGC

105030 IS [TC] TATATATGAATCATTACATTGCCTAAATAAAAACTTCAGAACACTAACATATTTCTCTA[TC]CTGGTAATTTTTATATTATTTAATTTCATCTCTTTAGGAAGGAAAAGGAAGCTAGAAGC ctg22fin4 22
105040 I S AGAACCCCTGCCCAGGTGAGGGTGT
105040 P C S ATGACGTGGCAGACGGAGAAGCAGACAGGAGY
105040 P T S CGCGCCGAGGAGAGAACAGACAGGAGY
105040 T C S CTTTCTCCTGTCTGGTTCTCTCACCCTCACCTGGGCAGGGGTTCTCT
105040 T T S CTTTCTCCTGTCTGGTTCTCTCACCCTCACCTGGGCAGGGGTTCTCT

105040 IS [CT] ACCAGTCAGGATTCCTTGCCTGGTAAGGCACTGCCCCTGCCTTTCTCCTGTCTGGTTCTC[CT]CACCCTCACCTGGCCAGGGGTTCTCTGACCCGCCCTTGCTGGAGGGAGATGATGGTCACC ctg22fin3 22
105043 I A TGGATCTCCACTTCCTTGAATGACCTCCCCAGT
105043 P G A ATGACGTGGCAGACCAGCTTCCACTCCGAGCY
105043 P A A CGCGCCGAGGAACTTCCACTCCGAGCY
105043 T G A TCTGGCTCGGAGTGGAAGTCCTGGGGAGGTCATTCAAGGAAGTGGAGATCCAAG
105043 T A A TCTGGCTCGGAGTGGAAGTYCTGGGGAGGTCATTCAAGGAAGTGGAGATCCAAG

105043 IS [GA] AGACACAGAGACCAAGAAAATTAGTGCTTGGATCTCCACTTCCTTGAATGACCTCCCCAG[GA]ACTTCCACTCCGAGCCAGACATGTCATGGAGCCACCTTGTGGTCAGGGCTCTGAATGGCA ctg22fin4 22
105046 I A CAATTAATGAGTTTTCTCTCATTGATTTGCCAAATTCTCTGGTTAGA
105046 P T A CGCGCCGAGGTTCCGTAGTACTTACTGTCAY
105046 P C A ATGACGTGGCAGACCTCCGTAGTACTTACTGTCAY
105046 T T A AACCTGACAGTAAGTACTACGGAACTAACCAGAGAATTTGGCAAATCAATGAGAGAAAACTCATTAATTGAT
105046 T C A AACCTGACAGTAAGTACTACGGAGCTAACCAGAGAATTTGGCAAATCAATGAGAGAAAACTCATTAATTGAT

105046 IS [TC] TTTCAAATTTGTATCAATTAATGAGTTTTCTCTCATTGATTTGCCAAATTCTCTGGTTAG[TC]TCCGTAGTACTTACTGTCAGGTTTAATTTCAGCTAAATTTGTATATCCAGTTTGGTATAC MULTIPLE 22
105049 I S CAGACTATTGCCTCCCGGTCACTGGAGCT
105049 P T S CGCGCCGAGGATTCTCAATACTTCAGCCATCY
105049 P C S ATGACG"GGCAGACGTTCTCAATACTTCAGCCATY
105049 T T S CACAGATGGCTGAAGTATTGAGAATGCTCCAGTGACCGGCAGGCAATAGTCTGTC
105049 T C S CACAGATGGCTGAAGTATTGAGAACGCTCAGTGACCGGCAGGCAATAGTCTGTC

105049 IS [TC] AACTGGCACAATTCAATTCCTACTGTACCATCATGCACAGATGGCTGAAGTATTGAGAA[TC]GCTCCAGTGACCGGCAGGCAATAGTCTGTCCACATCTAAGAACACACTTGGAATAACCTT ctg22fin4 22
105065 I A GTCCTAGGACCAAAACTGCCTGGACCCCT
105065 P A A CGCGCCGAGGATGGCTGGCTAAGAAAGAY
105065 P C A ATGACGTGGCAGACCTGGCTGGCTAAGAAAGY
105065 T A A AGTTTCTTTCTTAGCCAGCCATGGGGTCCAGGCAGTTTTGGTCCTAGGACGT
105065 T C A AGTTTCTTTCTTAGCCAGCCAGGGGGTCCAGGCAGTTTTGGTCCTAGGACGT

105065 IS [AC] CCTTGCAATTACTTGGGAATGCACAGAGAGACGTCCTAGGACCAAAACTGCCTGGACCCC[AC]TGGCTGGCTAAGAAAGAAACTCTGCCCCCTCCTCCCCCAGCTTCCCCAAACCAAAGACCA ctg22fin4 22
105066 I A TGAACATGGACTATCACATCATCTTGGACTCAATTCAAAAACTTATCTAAAACATGTAT
105066 P G A ATGACGTGGCAGACGTTACTGGGAAATTCCAGATY
105066 P A A CGCGCCGAGGATTACTGGGAAATTCCAGATTAAY
105066 T G A GAAATTAATCTGGAATTTCCCAGTAACTACATGTTTTAGATAAGTTTTTGAATTGAGTCCAAGATGATGTGATAGTGCATGTTCATA
105066 T A A GAAATTAATCTGGAATTTCCCAGTAATTACATGTTTTAGATAAGTTTTTGAATTGAGTCCAAGATGATGTGATAGTGCATGTTCATA

105066 IS [GA] TATGAACATGCACTATCACATCATCTTGGACTCAATTCAAAAACTTATCTAAAACATGTAG[GA]TTACTGGGAAATTCCAGATTAATTTCCTGCAAGTTTTAGTTAAGTAACGATTGTGTTAAA ctg22fin8 22
105067 I A GAGAGCAGCTCCTAGATGACTAAACCTGCTCT
105067 P A A CGCGCCGAGGAGCTGAAATCAAATGCTCTY
105067 P G A ATGACGTGGCAGACGGCTGAAATCAAATGCTCY
105067 T A A CATGAGAGCATTTGATTTCAGCTGAGCAGGTTTAGTCATCTAGGAGCTGCTCTCTT
105067 T G A CATGAGAGCATTTGATTTCAGCCGAGCAGGTTTAGTCATCTAGGAGCTGCTCTCTT

105067 IS [AG] GTTAGTTAACGATTGTGTTAAACACTTAAGAGAGCAGCTCCTAGATGACTAAACCTGCTC[AG]GCTGAAATCAAATGCTCTCATGCTTCCCTGAATGGACACACACAGAGTCTCTTCACCTGA ctg22fin4 22
105074 I A CCAAATCATTGGTGTTTTCTGCCTGTTGGTTTCTTGCAA
105074 P C A ATGACGTGGCAGACCTGGGAGGGAGACATCY
105074 P T A CGCGCCGAGGTTGGGAGGGAGACATCY
105074 T C A ACTAGATGTCTCCCTCCCAGTGCAAGAAACCAACAGGCAGAAAACACCAATGATTTGGAG
105074 T T A ACTAGATGTCTCCCTCCCAATGCAAGAAACCAACAGGCAGAAAACACCAATGATTTGGAG

105074 IS [CT] CATTCTTGACTAGAACTGTGCTCCAAATCATTGGTGTTTTCTGCCTGTTGGTTTCTTGCA[CT]TGGGAGGGAGACATCTAGTATGGTCCGATAGTATTTATTCAGATCTGGAACCACCATAGG ctg22fin4 22
105078 I A TCAGTGCCTTCCTTCTCCCCAGCCCA
105078 P T A CGCGCCGAGGTTGAAGCAGGGGTTTGY
105078 P C A ATGACGTGGCAGACCTGAAGCAGGGGTTTGY
105078 T T A CTGGCAAACCCTGCTTCAGGGGCTGGGGAGAAGGAAGGCACTGAGA
105078 T C A CTGGCAAACCCTGCTTCAGGGGCTGGGGAGAAGGAAGGCACTGAGA

105078 IS [TC] TCACAGCATCACCTTTTTAATTCACCTAGAATTCTCAGTGCCTTCCTCTCCCCAGCCC[TC]TCGTGAAGCAGGGGTTTGCCAGTATCGCACACCTGCTGAATGCCCCTCCTCAGAGAGGCAGGA ctg22fin4 22
105079 I S CCAGACCTTTGGTGCGCAGGTGCCC
105079 P C S ATGACGTGGCAGACGGTTCAGCGTGCCY
105079 P A S CGCGCCGAGGTGTTCAGCGTGCCSY
105079 T C S AGCACGGCACGCTGAACGGCACCTGCGCACCAAAGGTCTGGGC
105079 T A S AGCACGGCACGCTGAACAGGCACCTGCGCACCAAAGGTCTGGGC

FIGURE 129G

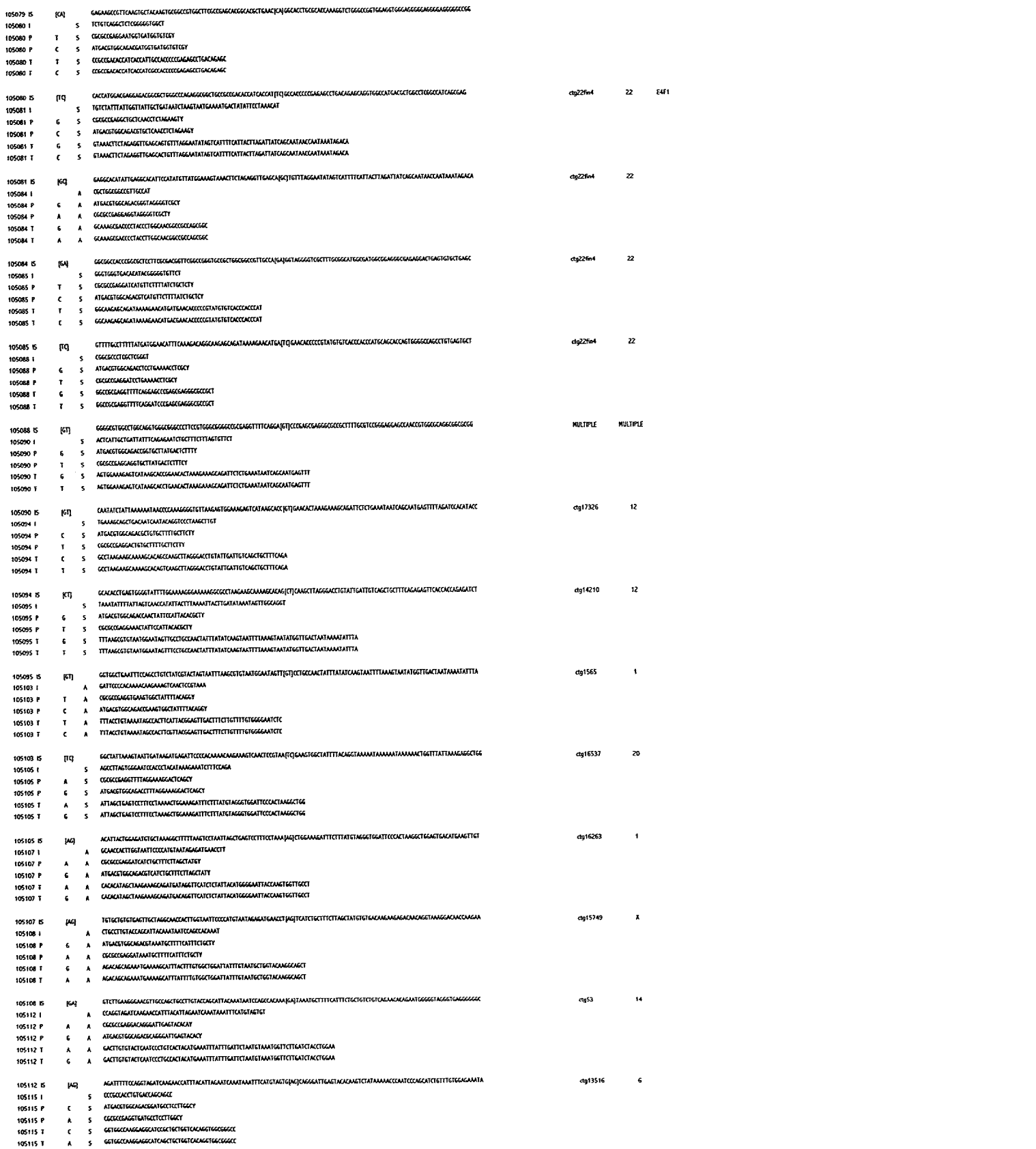

105079 IS [CA] GAGAAGCCGTTCAAGTGCTACAAGTGCGGGCCGTGGCTTCGCCGAGCAGGCACAGCCACGCTGAAC[CA]GGCACCTGCGCAACAAAGGTCTGGGGCCGGTGGAGGTGGGAGGGGGAGGGGAGGGGGCCGG
105080 I S TCTGTCAGGCTCTCGGGGGTGGCT
105080 P T S CGCGCCGAGGAATGGTGATGGTGTCGY
105080 P C S ATGACGTGGCAGACGATGGTGATGGTGTCGY
105080 T T S CCGCCGACACCATCACCATTGCCACCCCCGAGAGCCTGACAGAGC
105080 T C S CCGCCGACACCATCACCATCGCCACCCCCGAGAGCCTGACAGAGC
105080 IS [TC] CACCATGGACGAGGAGAGACGGCGCTGGGCCCAGAGGCGGCTGCCGCCGACACCATCACCAT[TC]GCCACCCCCGAGAGCCTGACAGAGCAGGTGGCCATGACGCTGGCCTGGCCATCAGCGAG ctg22fin4 22 E4F1
105081 I S TGTCTATTTATTGGTTATTGCTGATAATCTAAGTAATGAAAATGACTATATTCCTAAACAT
105081 P G S CGCGCCGAGGCTGCTCAACCTCTAGAAGTY
105081 P C S ATGACGTGGCAGACGTGCTCAACCTCTAGAAGY
105081 T G S GTAAACTTCTAGAGGTTGAGCAGTGTTTAGGAATATAGTCATTTTCATTACTTAGATTATCAGCAATAACCAATAAATAGACA
105081 T C S GTAAACTTCTAGAGGTTGAGCACTGTTTAGGAATATAGTCATTTTCATTACTTAGATTATCAGCAATAACCAATAAATAGACA
105081 IS [GC] GAGGCACATATTGAGGCACATTCCATATGTTATGGAAAGTAAACTTCTAGAGGTTGAGCA[GC]TGTTTAGGAATATAGTCATTTTCATTACTTAGATTATCAGCAATAACCAATAAATAGACA ctg22fin4 22
105084 I A CGCTGGGTGGCCGTTGCCAT
105084 P G A ATGACGTGGCAGACGGGTAGGGGTCGCY
105084 P A A CGCGCCGAGGAGGTAGGGGTCGCTY
105084 T G A GCAAAGCGACCCCTACCTTGGCAACGGCCGCCAGCGGC
105084 T A A GCAAAGCGACCCCTACCTTGGCAACGGCCGCCAGCGGC
105084 IS [GA] GGCGGCCACCCGGCGCTCCTTCGCGACGGTTCGGCCGGGTGCCGCTGGCGGCCGTTGCCA[GA]GGTAGGGGTCGCTTTGCGGCATGGCGATGGCGGAGGGCGAGAGGACTGAGTGCTGAGC ctg22fin4 22
105085 I S GGCTGGGTGACACATACGGGGGTGTTCT
105085 P T S CGCGCCGAGGATCATGTTCTTTTATCTGCTCTY
105085 P C S ATGACGTGGCAGACGTCATGTTCTTTTATCTGCTCY
105085 T T S GGCAAGAGCAGATAAAAGAACATGATGAACACCCCGTATGTGTCACCCACCCAT
105085 T C S GGCAAGAGCAGATAAAAGAACATGACGAACACCCCGTATGTGTCACCCACCCAT
105085 IS [TC] GTTTTGCCTTTTTATGATGGAACATTTCAAAGACAGGCAAGAGCAGATAAAAGAACATGA[TC]GAACACCCCGTATGTGTCACCCACCCATGCAGCACCAGTGGGGCCAGCCTGTGAGTGCT ctg22fin4 22
105088 I S CGGCGCCCTCGCTCGGGT
105088 P G S ATGACGTGGCAGACCTCCTGAAAACCTCGCY
105088 P T S CGCGCCGAGGATCCTGAAAACCTCGCY
105088 T G S GGCCGCGAGGTTTTCAGGAGCCCGAGCGAGGGGCCGCT
105088 T T S GGCCGCGAGGTTTTCAGGATCCCGAGCGAGGGCCGCT
105088 IS [GT] GGGGCGTGGCCTGGCAGGTGGGCGCGCCCTTCCGTGGGCGGGGCCGCGAGGTTTTCAGGA[GT]CCCGAGCGAGGGCGCCGCTTTTGCGTCCGGGAGCAGCCAACCGTGGCGCAGGCGGCGCGG MULTIPLE MULTIPLE
105090 I S ACTCATTGCTGATTATTTCAGAGAATCTGCTTTCTTTAGTGTTCT
105090 P G S ATGACGTGGCAGACCGGTGCTTATGACTCTTTY
105090 P T S CGCGCCGAGGAGGTGCTTATGACTCTTTCY
105090 T G S AGTGGAAAGAGTCATAAGCACCGGAACACTAAAGAAAGCAGATTCTCTGAAATAATCAGCAATGAGTTT
105090 T T S AGTGGAAAGAGTCATAAGCACCTGAACACTAAAGAAAGCAGATTCTCTGAAATAATCAGCAATGAGTTT
105090 IS [GT] CAATATCTATTAAAAAATAACCCAAAGGGGTGTTAAGAGTGGAAAGAGTCATAAGCACC[GT]GAACACTAAAGAAAGCAGATTCTCTGAAATAATCAGCAATGAGTTTTAGATCCACATACC ctg17326 12
105094 I S TGAAAGCAGCTGACAATCAATACAGGTCCCTAAGCTTGT
105094 P C S ATGACGTGGCAGACGCTGTGCTTTTGCTTCTY
105094 P T S CGCGCCGAGGACTGTGCTTTTGCTTCTTY
105094 T C S GCCTAAGAAGCAAAAGCACAGCCAAGCTTAGGGACCTGTATTGATTGTCAGCTGCTTTCAGA
105094 T T S GCCTAAGAAGCAAAAGCACAGTCAAGCTTAGGGACCTGTATTGATTGTCAGCTGCTTTCAGA
105094 IS [CT] GCACACCTGAGTGGGGTATTTTGGAAAAGGGAAAAAGGGGCCTAAGAAGCAAAAGCACAG[CT]CAAGCTTAGGGACCTGTATTGATTGTCAGCTGCTTTCAGAGAGTTCACCACCAGAGATCT ctg14210 12
105095 I S TAAATATTTTATTAGTCAACCATATTACTTTAAAATTACTTGATATAAATAGTTGGCAGGT
105095 P G S ATGACGTGGCAGACCAACTATTCCATTACACGCTY
105095 P T S CGCGCCGAGGAACTATTCCATTACACGCTY
105095 T G S TTTAAGCGTGTAATGGAATAGTTGCCTGCCAACTATTTATATCAAGTAATTTTAAAGTAATATGGTTGACTAATAAAATATTTA
105095 T T S TTTAAGCGTGTAATGGAATAGTTCCTGCCAACTATTTATATCAAGTAATTTTAAAGTAATATGGTTGACTAATAAAATATTTA
105095 IS [GT] GGTGGCTGAATTTCCAGCCTGTCTATCGTACTAGTAATTTAAGCGTGTAATGCAATAGTT[GT]CCTGCCAACTATTTATATCAAGTAATTTTAAAGTAATATGGTTGACTAATAAAATATTTA ctg1565 1
105103 I A GATTCCCACAAAACAAGAAAGTCAACTCCGTAAA
105103 P T A CGCGCCGAGGTGAAGTGGCTATTTTACAGGY
105103 P C A ATGACGTGGCAGACCGAAGTGGCTATTTTACAGGY
105103 T T A TTTACCTGTAAAATAGCCACTTCATTACGGAGTTGACTTTCTTGTTTTGTGGGGAATCTC
105103 T C A TTTACCTGTAAAATAGCCACTTCGTTACGGAGTTGACTTTCTTGTTTTGTGGGGAATCTC
105103 IS [TC] GGCTATTAAAGTAATTGATAAGATGAGATTCCCCACAAAACAAGAAAGTCAACTCCGTAA[TC]GAAGTGGCTATTTTACAGGTAAAAATAAAAAATAAAAAACTGGTTTATTAAAGAGGCTGG ctg16537 20
105105 I S AGCCTTAGTGGGAATCCACCCTACATAAAGAAATCTTCCAGA
105105 P A S CGCGCCGAGGTTTTAGGAAAGGACTCAGCY
105105 P G S ATGACGTGGCAGACTTTAGGAAAGGACTCAGCY
105105 T A S ATTAGCTGAGTCCTTTCCTAAAACTGGAAAGATTTCTTTATGTAGGGTGGATTCCCACTAAGGCTGG
105105 T G S ATTAGCTGAGTCCTTTCCTAAAGCTGGAAAGATTTCTTTATGTAGGGTGGATTCCCACTAAGGCTGG
105105 IS [AG] ACATTACTGGAAGATGTGCTAAAGGCTTTTTAAGTCCTAATTAGCTGAGTCCTTTCCTAAA[AG]CTGGAAAGATTTCTTTATGTAGGGTGGATTCCCACTAAGGCTGGAGTGACATGAAGTTGT ctg16263 1
105107 I A GCAACCACTTGGTAATTCCCCATGTAATAGAGATGAACCTT
105107 P A A CGCGCCGAGGATCATCTGCTTTCTTAGCTATGY
105107 P G A ATGACGTGGCAGAGGTCATCTGCTTTCTTAGCTATT
105107 T A A CACACATAGCTAAGAAAGCAGATGATAGGTTCATCTCTATTACATGGGGAATTACCAAGTGGTTGCCT
105107 T G A CACACATAGCTAAGAAAGCAGATGACAGGTTCATCTCTATTACATGGGGAATTACCAAGTGGTTGCCT
105107 IS [AG] TGTGCTGTGTGAGTTGCTAGGCAACCACTTGGTAATTCCCCATGTAATAGAGATGAACCT[AG]TCATCTGCTTTCTTAGCTATGTGTGACAAGAAGAGACAACAGGTAAAGGACAACCAAGAA ctg15749 X
105108 I A CTGCCTTGTACCAGCATTACAAATAATCCAGCCACAAAT
105108 P G A ATGACGTGGCAGAGGTAAATGCTTTTCATTTCTGCTY
105108 P A A CGCGCCGAGGATAAATGCTTTTCATTTCTGCTY
105108 T G A AGACAGCAGAAATGAAAAGCATTTACTTTGTGGCTGGATTATTTGTAATGCTGGTACAAGGCAGCT
105108 T A A AGACAGCAGAAATGAAAAGCATTTATTTTGTGGCTGGATTATTTGTAATGCTGGTACAAGGCAGCT
105108 IS [GA] GTCTTGAAGGGAACGTTGCCAGCTGCCTTGTACCAGCATTACAAATAATCCAGCCACAAA[GA]TAAATGCTTTTCATTTCTGCTGTCTGTCAGAACACAGAATGGGGGTAGGGTGAGGGGGGC ctg53 14
105112 I A CCAGGTAGATCAAGAACCATTTACATTAGAATCAAATAAATTTCATGTAGTGT
105112 P A A CGCGCCGAGGACAGGGATTGAGTACACAT
105112 P G A ATGACGTGGCAGACGCAGGGATTGAGTACACY
105112 T A A GACTTGTGTACTGAATCCCTGTCACTACATGAAATTTATTTGATTCTAATGTAAATGGTTCTTGATCTACCTGGAA
105112 T G A GACTTGTGTACTCAATCCCTGCCACTACATGAAATTTATTTGATTCTAATGTAAATGGTTCTTGATCTACCTGGAA
105112 IS [AG] AGATTTTTCCAGGTAGATCAAGAACCATTTACATTAGAATCAAATAAATTTCATGTAGTG[AG]CAGGGATTGAGTACACAAGTCTATAAAAACCCAATCCCAGCATCTGTTTGTGGAGAAATA ctg13516 6
105115 I S CCCGCCACCTGTGACCAGCAGCC
105115 P C S ATGACGTGGCAGACGGATGCCTCCTGGCY
105115 P A S CGCGCCGAGGTGATGCCTCCTTGGCY
105115 T C S GGTGGCCAAGGAGGCATCCGCTGCTGGTCACAGGTGGCGGGCC
105115 T A S GGTGGCCAAGGAGGCATCAGCTGCTGGTCACAGGTGGCGGGCC

FIGURE 129G

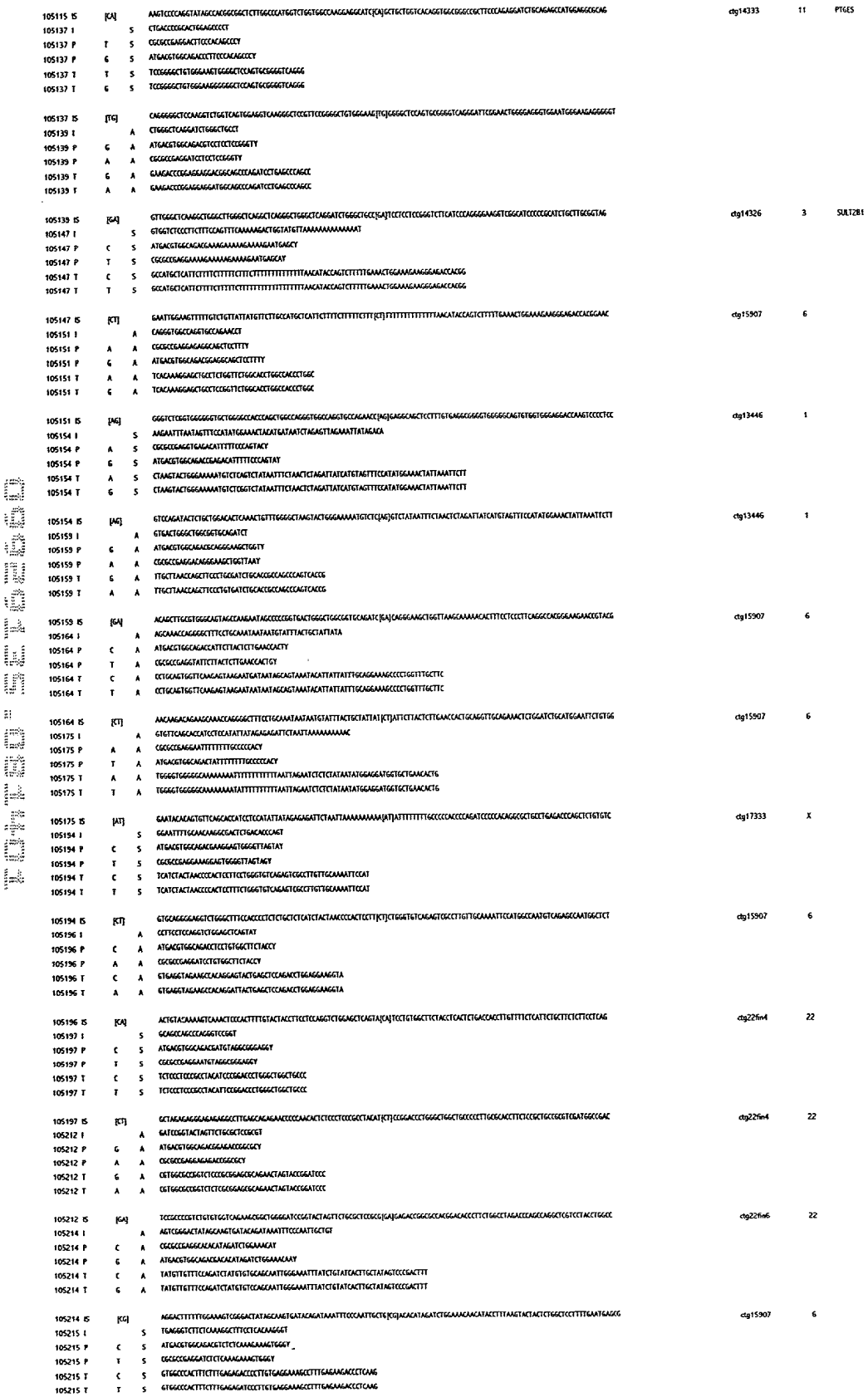

105115 IS [CA] AAGTCCCCAGGTATAGCCACGGCGGCTCTTGGCCCATGGTCTGGTGGCCAAGGAGGCATC[CA]GCTGCTGGTCACAGGTGGCGGGCCGCTTCCCAGAGGATCTGCAGAGCCATGGAGGCGCAG ctg14333 11 PTGES
105137 I S CTGACCCGCACTGGAGCCCCT
105137 P T S CGCGCCGAGGACTTCCCCACAGCCCY
105137 P G S ATGAGGTGGCAGACCCTTCCCACAGCCCY
105137 T T S TCCGGGGCTGTGGGAAGTGGGGCTCCAGTGCGGGGTCAGGG
105137 T G S TCCGGGGCTGTGGGAAGGGGGCTCCAGTGCGGGGTCAGGG
105137 IS [TG] CAGGGGGCTCCAAGGTCTGGTCAGTGGAGGTCAAGGGCTCCGTTCCGGGGCTGTGGCGAAGJTG]GGGGCTCCAGTGCGGGGTCAGGGATTCGGAACTGGGGAGGGTGGAATGGGAAGAGGGGGT
105139 I A CTGGGCTCAGGATCTGGGCTGCCT
105139 P G A ATGACGTGGCAGACGTCCTCCTCCGGGTY
105139 P A A CGCGCCGAGGATCCTCCTCCGGGTY
105139 T G A GAAGACCCGGAGGAGGACGGCAGCCCAGATCCTGAGCCCAGCC
105139 T A A GAAGACCCGGAGGAGGATGGCAGCCCAGATCCTGAGCCCAGCC
105138 IS [GA] GTTGGGCTCAAGGCTGGGCTTGGGCTCAGGCTCAGGGCTGGGCTCAGGATCTGGGCTGCC[GA]TCCTCCTCCCGGGTCTTCATCCCAGGGGAAGETCGGCATCCCCCGCATCTGCTTGCGGTAG ctg14326 3 SULT2B1
105147 I S GTGGTCTCCCTTCTTTCAGTTTCAAAAAGACTGGTATGTTAAAAAAAAAAAAAT
105147 P C S ATGACGTGGCAGACGAAAGAAAAAGAAAAGAATGAGCY
105147 P T S CGCGCCGAGGAAAAGAAAAAGAAAAGAATGAGCAY
105147 T C S GCCATGCTCATTCTTTTCTTTTTCTTTCTTTTTTTTTTTTTTAACATACCAGTCTTTTTGAAACTGGAAAGAAGGGAGAACCACGG
105147 T T S GCCATGCTCATTCTTTTCTTTTTCTTTTTTTTTTTTTTTTAACATACCAGTCTTTTTGAAACTGGAAAGAAGGGAGAACCACGG
105147 IS [CT] GAATTGGAAGTTTTTGTCTGTTATTATGTTCTTGCCATGCTCATTCTTTTCTTTTTCTTT[CT]TTTTTTTTTTTTTAACATACCAGTCTTTTTGAAACTGGAAAGAAGGGAGACCACGGAAC ctg15907 6
105151 I A CAGGGTGGCCAGGTGCCAGAACCT
105151 P A A CGGCCCGAGGAGAGGCAGCTCCTTTY
105151 P G A ATGACGTGGCAGACGGAGGCAGCTCCTTTY
105151 T A A TCACAAAGGAGCTGCCTCTGGTTCTGGCACCTGGCCACCCTGGC
105151 T G A TCACAAAGGAGCTGCCTCCGGTTCTGGCACCTGGCCACCCTGGC
105151 IS [AG] GGGTCTCGGTGGGGGGTGCTGGGGCCACCCAGCTGGCCAGGGTGGCCAGGTGCCAGAACC[AG]GAGGCAGCTCCTTTGTGAGGGGGGGTGGGGGCAGTGTGGTGGGAGGACCAAGTCCCCTCC ctg13446 1
105154 I S AAGAATTTAATAGTTTCCATATGGAAACTACATGATAATCTAGAGTTAGAAATTATAGACA
105154 P A S CGCGCCGAGGTGAGACATTTTCCCAGTACY
105154 P G S ATGACGTGGCAGACCGAGACATTTTTCCCAGTAY
105154 T A S CTAAGTACTGGGAAAAATGTCTCAGTCTATAATTTCTAACTCTAGATTATCATGTAGTTTCCATATGGAAACTATTAAATTCTT
105154 T G S CTAAGTACTGGGAAAAATGTCTGGGTCTATAATTTCTAACTCTAGATTATCATGTAGTTTCCATATGGAAACTATTAAATTCTT
105154 IS [AG] GTCCAGATACTCTGCTGGACACTCAAACTGTTTGGGGCTAAGTACTGGGAAAAATGTCTC[AG]GTCTATAATTTCTAACTCTAGATTATCATGTAGTTTCCATATGGAAACTATTAAATTCTT ctg13446 1
105159 I A GTGACTGGGCTGGCGGTGCAGATCT
105159 P G A ATGACGTGGCAGACGCAGGCAAGCTGGTY
105159 P A A CGCGCCGAGGACAGGCAAGCTGGTTAAY
105159 T G A TTGCTTAACCAGCTTCCCTGGATCTGCACCGCCAGCCCAGTCACCG
105159 T A A TTGCTTAACCAGCTTCCCTGTGATCTGCACCGCCAGCCCAGTCACCG
105159 IS [GA] ACAGCTTGCGTGGGCAGTAGCCAAGAATAGCCCCCGGTGACTGGGCTGGCCGGTGCAGATC[GA]CAGGGAAGCTGGTTAAGCAAAACACTTTCCTCCCTTCAGGCCACGGGAAGAACCGTACG ctg15907 6
105164 I A AGCAAACCAGGGGCTTTCCTGCAAATAATAATGTATTTACTGCTATTATA
105164 P C A ATGACGTGGCAGACCATTCTTACTCTTGAACCACTY
105164 P T A CGCGCCGAGGTATTCTTACTCTTGAACCACTGY
105164 T C A CCTGCAGTGGTTCAACAGTAAGAATGATAATAGCAGTAAATACATTATTATTTGCAGGAAAGCCCCTGGTTTGCTTC
105164 T T A CCTGCAGTGGTTCAACAGTAAGAATAATAATAGCAGTAAATACATTATTATTTGCAGGAAAGCCCCTGGTTTGCTTC
105164 IS [CT] AACAAGACAGAAGCAAACCAGGGGCTTTCCTGCAAATAATAATGTATTTACTGCTATTAT[CT]ATTCTTACTCTTGAACCACTGCAGGTTGCAGAAACTCTGGATCTGCATGGAATTCTGTGG ctg15907 6
105175 I A GTGTTCAGCACCATCCTCCATATTATAGAGAGATTCTAATTAAAAAAAAAAC
105175 P A A CGCGCCGAGGAATTTTTTTTGCCCCCACY
105175 P T A ATGACGTGGCAGACTATTTTTTTTGCCCCCACY
105175 T A A TGGGGTGGGGGCAAAAAAAATTTTTTTTTTTTAATTAGAATCTCTCTATAATATGGAGGATGGTGCTGAACACTG
105175 T T A TGGGGTGGGGGCAAAAAAAATATTTTTTTTTTTAATTAGAATCTCTCTATAATATGGAGGATGGTGCTGAACACTG
105175 IS [AT] GAATACACAGTGTTCAGCACCATCCTCCATATTATAGAGAGATTCTAATTAAAAAAAAAA[AT]ATTTTTTTTGCCCCCACCCCAGATCCCCCACAGGCCCTGCCTGACACCCAGCTCTGTGTC ctg17333 X
105194 I S GGAATTTGCAACAAGGCGACTCTGACACCCAGT
105194 P C S ATGACGTGGCAGACGAAGGAGTGGGCTTAGTAY
105194 P T S CGCGCCCAGGAAAGGAGTGGGGTTAGTAGY
105194 T C S TCATCTACTAACCCCACTCCTTCCTGGGTGTCAGAGTCGGCTTGTTGCAAAATTCCAT
105194 T T S TCATCTACTAACCCCACTCCTTTCTGGGTGTCAGAGTCGGCCTTGTTGCAAAATTCCAT
105194 IS [CT] GTGCAGGGGAGGTCTGGGCTTTCCACCCCTCTCTGCTCTCATCTACTAACCCCACTCCTT[CT]CTGGGTGTCAGAGTCGCCTTGTTGCAAAATTCCATGGCCAATGTCAGAGCCAATGGCTCT ctg15907 6
105196 I A CCTTCCTCCAGGTCTGGAGCTCAGTAT
105196 P C A ATGACGTGGCAGACCTCCTGTGGCTTCTACCY
105196 P A A CGCGCCGAGGATCCTGTGGCTCTACCY
105196 T C A GTGAGGTAGAAGCCACAGGAGTACTGAGCTCCAGACCTGGAGGAAGGTA
105196 T A A GTGAGGTAGAAGCCACAGGATTACTGAGCTCCAGACCTGGAGGAAGGTA
105196 IS [CA] ACTGTACAAAAGTCAAACTCCCACTTTGTACTACCTTCCTCCAGGTCTGGAGCTCAGTA[CA]TCCTGTGGCTCTCACCTCATCTGACCACCTTGTTTTCTCATTCTGCTTCTCTTCCTCAG ctg22fin4 22
105197 I S GCAGCCAGCCCAGGGTCCGGT
105197 P C S ATGACGTGGCAGACGATGTAGGCGGGAGGY
105197 P T S CGCGCCGAGGAATGTAGGCGGGAGGY
105197 T C S TCTCCCTCCCGCCTACATCCCGGACCCTGGGCTGGCTGCCC
105197 T T S TCTCCCTCCCGCCTACATTCCGGACCCTGGGCTGGCTGCCC
105197 IS [CT] GCTAGAGAGGGAGAGAGGCCTTGAGCAGAGAACCCCAACACTCTCCCTCCCGCCTACAT[CT]CCGGACCCTGGGCTGGCTGCCCCCTTGCGCACCTTCTCCGCTGCCGGTGGATGGCCGAC ctg22fin4 22
105212 I A GATCCGGTACTAGTTCTGCGCTCCGCGT
105212 P G A ATGACGTGGCAGACGGAGACCCGCGCY
105212 P A A CGCGCCGAGGAGAGACCGGCGCY
105212 T G A CGTGGCGCCGGTCTCCCGCGCGAGGCAGAACTAGTACCGGATCCC
105212 T A A CGTGGCGCCGGTCTCTCCGCGGAGGCAGAACTAGTACCGGATCCC
105212 IS [GA] TCCGCCCCGTCTGTGTGGTCAGAACGGCTGGGGATCCCGTACTAGTTCTGCGCTCCGCG[GA]GACACCGGCGCCACGGACACCCTCTGGCCTAGACCCAGCCAGGCTCGTCCTACCTGGCC ctg22fin6 22
105214 I A AGTCGGGACTATAGCAAGTGATACAGATAAATTTCCCAATTGCTGT
105214 P C A CGCGCCGAGGCACACATAGATCTGGAAACAT
105214 P G A ATGACGTGGCAGACACACATAGATCTGGAAACAAY
105214 T C A TATGTTGTTTCAGATCTATGTGTGCAGCAATTGGGAAATTTATCTGTATCACTTGCTATAGTCCCGACTTT
105214 T G A TATGTTGTTTCAGATCTATGTGTCCAGCAATTGGGAAATTTATCTGTATCACTTGCTATAGTCCCGACTTT
105214 IS [CG] AGGACTTTTTGGCAAAGTCGGGACTATAGCAAGTGATACAGATAAATTTCCCAATTGCTG[CG]ACACATAGATCTGCAAACAACATACCTTTAAGTACTACTCTGGCTCCTTTTGAATGAGCG ctg15907 6
105215 I S TGAGGGTCTTCTCAAAGGCTTTCCTCACAAGGGT
105215 P C S ATGACGTGGCAGACGTCTCTCAAAGAAAGTGGGY
105215 P T S CGCGCCGAGGATCTCTCAAAGAAAGTGGGY
105215 T C S GTGGCCCACTTTCTTTGAGAGACCCCTTGTGAGGAAAGCCTTTGAGAAGACCCTCAAG
105215 T T S GTGGCCCACTTTCTTTGAGAGATCCCTTGTGAGGAAAGCCTTTGAGAAGACCCTCAAG

FIGURE 129G

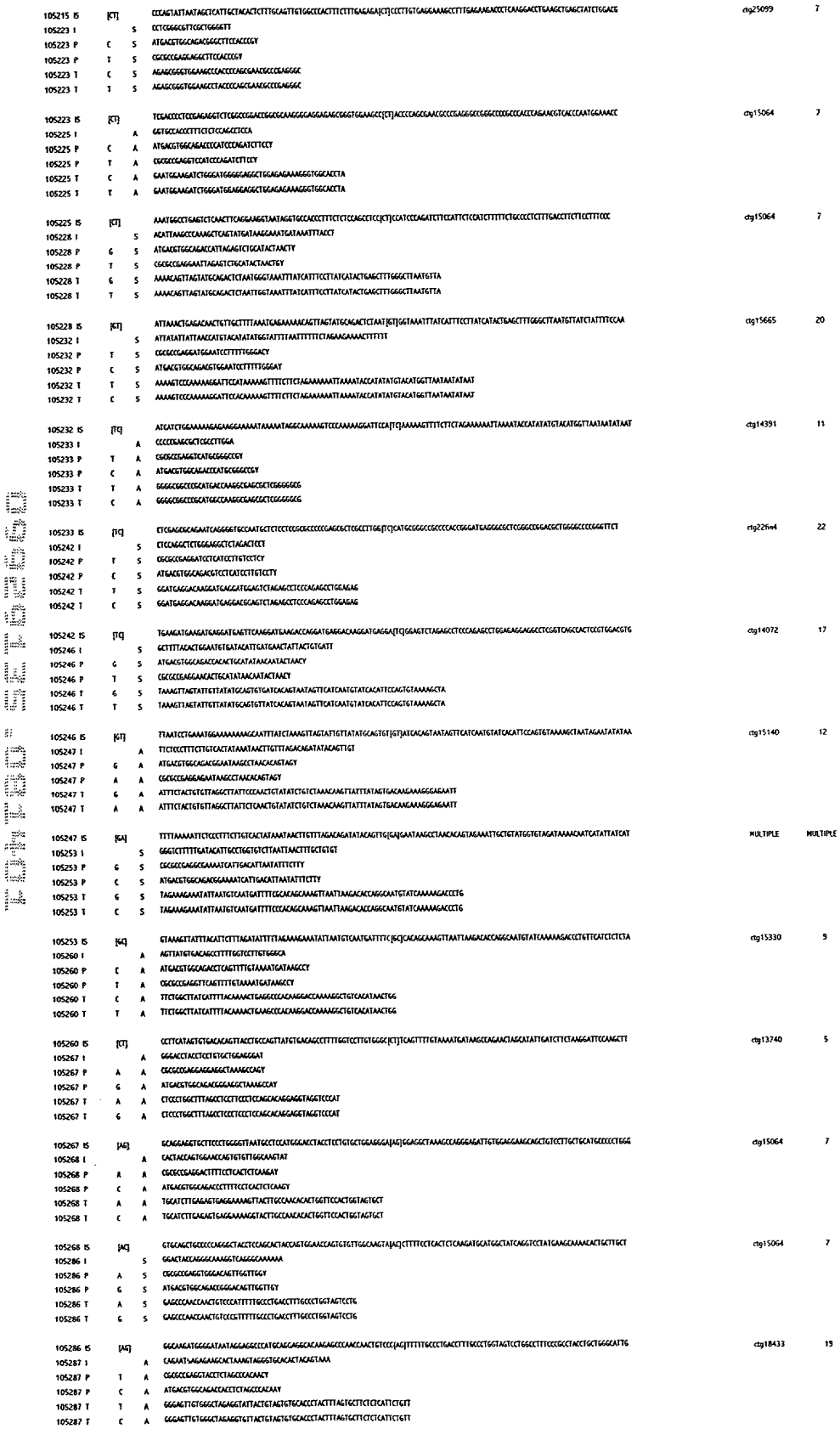

105215 IS [CT] CCCAGTATTAATAGCTCATTGCTACACTCTTTGCAGTTGTGGCCCACTTTCTTTGAGAGA[CT]CCCTTGTGAGGAAAGCTTTGAGAAGACCCTCAAGGACCTGAAGCTGAGCTATCTGGACG ctg25059 7
105223 I S CCTCGGGCGTTCGCTGGGGTT
105223 P C S ATGACGTGGCAGACGGGCTTCCACCCGY
105223 P T S CGCGCCGAGCAGGCTTCCACCCGY
105223 T C S AGAGCGGGTGGAAGCCACCCCAGCGAACGCCCGAGGGC
105223 T T S AGAGCGGGTGGAAGCCTACCCCAGCGAACGCCCGAGGGC
105223 IS [CT] TCGACCCCTCCGAGAGGTCTCCGCCGGACGGGCGAAGGGCAGGAGAGAGCGGGTGGAAGCC[CT]ACCCCAGCGAACGCCCGAGGGCCGGCCCGCCCACCCAGAACGTCACCCAATGGAAACC ctg15064 7
105225 I A GGTGCCACCCTTTCTCTCCAGCCTCCA
105225 P C A ATGACGTGGCAGACCCCATCCCAGATCTTCCY
105225 P T A CGCGCCCAGGTCCATCCCAGATCTTCCY
105225 T C A GAATGGAAGATCTGGGATGGGGCAGGCTGGAGAGAAAGGGTGGCACCTA
105225 T T A GAATGGAAGATCTGGGATGGAGGAGGCTGGAGAGAAAGGGTGGCACCTA
105225 IS [CT] AAATGGCCTGAGTCTCAACTTCAGGAAGGTAATAGGTGCCACCCTTTCTCTCCAGCCTCC[CT]CCATCCCAGATCTTCCATTCTCCATCTTTTTCTGCCCCTCTTTGACCTTCTTCCTTTCCC ctg15064 7
105228 I S ACATTAAGCCCAAAGCTCAGTATGATAAGGAAATGATAAATTTACCT
105228 P G S ATGACGTGGCAGACCATTAGAGTCTGCATACTAACTY
105228 P T S CGCGCCGAGGAATTAGAGTCTGCATACTAACTGY
105228 T G S AAAACAGTTAGTATGCAGACTCTAATGGGTAAATTTATCATTTCCTTATCATACTGAGCTTTGGGCTTAATGTTA
105228 T T S AAAACAGTTAGTATGCAGACTCTAATTGGTAAATTTATCATTTCCTTATCATACTGAGCTTTGGGCTTAATGTTA
105228 IS [GT] ATTAAACTGAGACAACTGTTGCTTTTAAATGAGAAAAACAGTTAGTATGCAGACTCTAAT[GT]GGTAAATTTATCATTTCCTTATCATACTGAGCTTTGGGCTTAATGTTATCTATTTTCCAA ctg15665 20
105232 I S ATTATATTATTAACCATGTACATATATGGTATTTTAATTTTTTCTAGAAGAAAACTTTTTT
105232 P T S CGCGCCCAGGGATGGAATCCTTTTTGGGACY
105232 P C S ATGACGTGGCAGAGGTGGAATCCTTTTTGGGAY
105232 T T S AAAAGTCCCAAAAAGGATTCCATAAAAAGTTTTCTTCTAGAAAAAATTAAAATACCATATATGTACATGGTTAATAATATAAT
105232 T C S AAAAGTCCCAAAAAGGATTCCACAAAAAGTTTTCTTCTAGAAAAAATTAAAATACCATATATGTACATGGTTAATAATATAAT
105232 IS [TC] ATCATCTGGAAAAAGAGAAGGAAAATAAAAATAGGCAAAAAGTCCCAAAAGGATTCCA[TC]AAAAAGTTTTCTTCTAGAAAAAATTAAAATACCATATATGTACATGGTTAATAATATAAT ctg14391 11
105233 I A CCCCCGAGCGCTCGCCTTGGA
105233 P T A CGCGCCGAGGTCATGCGGGCCGY
105233 P C A ATGACGTGGCAGACCCATGCGGGCCGY
105233 T T A GGGGCGGCCCGCATGACCAAGCGAGCGCTCGGGGGGG
105233 T C A GGGGCGGCCCGCATGACCAAGCGAGCGCTCGGGGGGG
105233 IS [TC] CTCGAGCGCAGAATCAGGGGTGCCAATGCTCTCCTCCGCGCCCCCGAGCGCTCGCCTTGG[TC]CATGCGGGCCGCCCCACCGGGATGAGGGCGCTCGGGCCGGACGCTGGGCCCCGGGTTCT ctg22fm4 22
105242 I S CTCCAGGCTCTGGGAGGCTCTAGACTCCT
105242 P T S CGCGCCGAGGATCCTCATCCTTGTCCTCY
105242 P C S ATGACGTGGCAGACGTCCTCATCCTTGTCCTY
105242 T T S GGATGAGGACAGGATGAGGATGGAGTCTAGAGCCTCCCAGAGCCTGGAGAG
105242 T C S GGATGAGGACAGGATGAGGACGGAGTCTAGAGCCTCCCAGAGCCTGGAGAG
105242 IS [TC] TGAAGATGAAGATGAGGATGAGTTCAAGGATGAAGACACAGGATGAGGACAAGGATGAGGA[TC]GGAGTCTAGAGCCTCCCAGAGCCTGGAGAGGAGGCCTCGGTCAGCCACTCCGTGGACGTG ctg14072 17
105246 I S GCTTTTACACTGGAATGTGATACATTCATGAACTATTACTGTGATT
105246 P G S ATGACGTGGCAGACCACACTGCATATAACAATACTAACY
105246 P T S CGCGCCGAGGAACACTGCATATAACAATACTAACY
105246 T G S TAAAGTTAGTATTGTTATATGCAGTGTGATCACAGTAATAGTTCATCAATGTATCACATTCCAGTGTAAAAGCTA
105246 T T S TAAAGTTAGTATTGTTATATGCAGTGTTATCACAGTAATAGTTCATCAATGTATCACATTCCAGTGTAAAAGCTA
105246 IS [GT] TTAATCCTGAAATGGAAAAAAAAGCAATTTATCTAAAGTTAGTATTGTTATATGCAGTGT[GT]ATCACAGTAATAGTTCATCAATGTATCACATTCCAGTGTAAAAGCTAATAGAATATATAA ctg15140 12
105247 I A TTCTCCCTTTCTGTCACTATAAATAACTTGTTTAGACAGATATACAGTTGT
105247 P G A ATGACGTGGCAGACGGAATAAGCCTAACACAGTAGY
105247 P A A CGCGCCGAGGAGAATAAGCCTAACACAGTAGY
105247 T G A ATTTCTACTGTGTTAGGCTTATTCCCAACTGTATATCTGTCTAAACAAGTTATTTATAGTGACAAGAAAGGGAGAATT
105247 T A A ATTTCTACTGTGTTAGGCTTATTCTCAACTGTATATCTGTCTAAACAAGTTATTTATAGTGACAAGAAAGGGAGAATT
105247 IS [GA] TTTTAAAAATTCTCCCTTTCTTGTCACTATAAATAACTTGTTTAGACAGATATACAGTTG[GA]GAATAAGCCTAACACAGTAGAAATTGCTGTATGGTGTAGATAAAACAATCATATTATCAT MULTIPLE MULTIPLE
105253 I S GGGTCTTTTTGATACATTGCCTGGTGTCTTAATTAACTTTGCTGTGT
105253 P G S CGCGCCGAGGCGAAAATCATTGACATTAATATTTCTTY
105253 P C S ATGACGTGGCAGACGGAAAATCATTGACATTAATATTTCTTY
105253 T G S TAGAAAGAAATATTAATGTCAATGATTTTCGCACAGCAAAGTTAATTAAGACACCAGGCAATGTATCAAAAAGACCCTG
105253 T C S TAGAAAGAAATATTAATGTCAATGATTTTCCCACAGCAAAGTTAATTAAGACACCAGGCAATGTATCAAAAAGACCCTG
105253 IS [GC] GTAAAGTTATTTACATTCTTTAGATATTTTTAGAAAGAAATATTAATGTCAATGATTTTC[GC]CACAGCAAAGTTAATTAAGACACCAGGCAATGTATCAAAAAGACCTGTTCATCTCTCTA ctg15330 9
105260 I A AGTTATGTGACAGCCTTTTGGTCCTTGTGGGCA
105260 P C A ATGACGTGGCAGACCTAGTTTGTAAAATGATAAGCCY
105260 P T A CGCGCCGAGGTTCAGTTTTGTAAAATGATAAGCCY
105260 T C A TTCTGGCTTATCATTTTACAAAACTGAGCCCACAAGGACCAAAGGCTGTCACATAACTGG
105260 T T A TTCTGGCTTATCATTTTACAAAACTGAGCCCACAAGGACCAAAGGCTGTCACATAACTGG
105260 IS [CT] CCTTCATAGTGTGACACAGTTACCTGCCAGTTATGTGACAGCCTTTTGGTCCTTGTGGGC[CT]TCAGTTTTGTAAAATGATAAGCCAGAACTAGCATATTGATCTTCTAAGGATTCCAAGCTT ctg13740 5
105267 I A GGGACCTACCTCCTGTGCTGGAGGGAT
105267 P A A CGCGCCGAGGAGGAGGCTAAAGCCAGY
105267 P G A ATGACGTGGCAGACGGGAGGCTAAAGCCAY
105267 T A A CTCCCTGGCTTTAGCCTCCTCCCTCCAGCACAGGAGGTAGGTCCCAT
105267 T G A CTCCCTGGCTTTAGCCTCCTCCCTCCAGCACAGGAGGTAGGTCCCAT
105267 IS [AG] GCAGGAGGTGCTTCCCTGGGGTTAATGCCTCCATGGGACCTACCTCCTGTGCTGGAGGGA[AG]GGAGGCTAAAGCCAGGGAGATTGTGGAGGAAGCAGCTGTCCTTGCTGCATGCCCCTGGG ctg15064 7
105268 I A CACTACCAGTGGAACCAGTGTGTTGGCAAGTAT
105268 P A A CGCGCCGAGGACTTTCCTCACTCTCAAGAY
105268 P C A ATGACGTGGCAGACCCTTTCCTCACTCTCAAGY
105268 T A A TGCATCTTGAGAGTGAGGAAAAGTTACTTGCCAACACACTGGTTCCACTGGTAGTGCT
105268 T C A TGCATCTTGAGAGTGAGGAAAAGGTACTTGCCAACACACTGGTTCCACTGGTAGTGCT
105268 IS [AC] GTGCAGCTGCCCCCAGGGCTACCTCCAGCACTACCAGTGGAACCAGTGTGTTGGCAAGTA[AC]CTTTTCCTCACTCTCAAGATGCATGGCTATCAGGTCCTATGAAGCAAACACTGCTTGCT ctg15064 7
105286 I S GGACTACCAGGGCAAAGGTCAGGGCAAAAAA
105286 P A S CGCGCCGAGGTGGGACAGTTGGTTGGY
105286 P G S ATGACGTGGCAGACGGGACAGTTGGTTGY
105286 T A S GAGCCCAACCAACTGTCCCATTTTTGCCCTGACCTTTGCCCTGGTAGTCCTG
105286 T G S GAGCCCAACCAACTGTCCCGTTTTTGCCCTGACCTTTGCCCTGGTAGTCCTG
105286 IS [AG] GGCAAGATGGGGATAATAGGAGGCCATGCAGGAGGCACAAGAGCCCAACCAACTGTCCC[AG]TTTTTGCCCTGACCTTTGCCCTGGTAGTCCTGGCCTTTCCCGCCTACCTGCTGGGCATTG ctg18433 19
105287 I A CAGAATAAGAAGAACACTAAAGTAGGGTGCACACTACAGTAAA
105287 P T A CGCGCCGAGGTACCTCTAGCCCACAACY
105287 P C A ATGACGTGGCAGACCACCTCTAGCCCACAAY
105287 T T A GGGAGTTGTGGGCTAGAGGTATTACTGTAGTGTGCACCCTACTTTAGTGCTTCTCTCATTCTGTT
105287 T C A GGGAGTTGTGGGCTAGAGGTGTTACTGTAGTGTGCACCCTACTTTAGTGCTTCTCTCATTCTGTT

FIGURE 129G

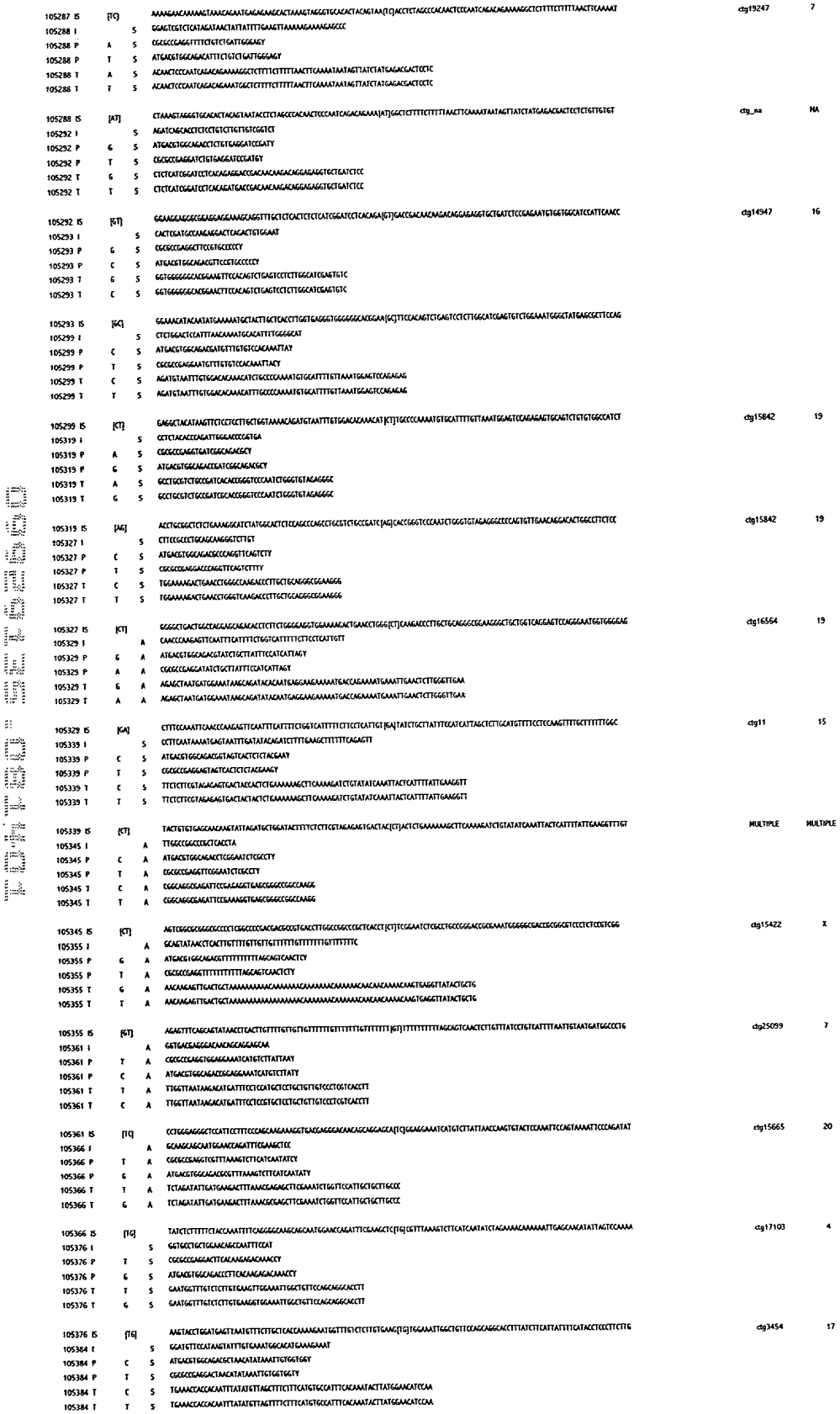

105287 IS [TC] AAAAGAACAAAAAGTAAACAGAATGAGAGAAGCACTAAAGTAGGGTGCAACACTACAGTAA[TC]ACCTCTAGCCCACAACTCCCAATCAGACAGAAAAGGCTCTTTTCTTTTTAACTTCAAAAT ctg19247 7
105288 I S GGAGTGGTCTCATAGATAACTATTATTTTGAAGTTAAAAAGAAAAGAGCCC
105288 P A S CGCGCCCAGGTTTTCTGTCTGATTGGGAGY
105288 P T S ATGAGGTGGCAGACATTTCTGTCTGATTGGGAGY
105288 T A S ACAACTCCCAATCAGACAGAAAAGGCTCTTTTCTTTTTAACTTCAAAATAATAGTTATCTATGAGACGACTCCTC
105288 T T S ACAACTCCCAATCAGACAGAAATGGCTCTTTTCTTTTTAACTTCAAAATAATAGTTATCTATGAGACGACTCCTC
105288 IS [AT] CTAAGTAGGGTGGCACACTACAGTAATACCTCTAGCCCACAACTCCCAATCAGACAGAAA[AT]GGCTCTTTTCTTTTTAACTTCAAAATAATAGTTATCTATGAGACGACTCCTCTGTTGTGT ctg_na NA
105292 I S AGATCAGCAGCTCTCCTGTCTTGTTGTCGGTCT
105292 P G S ATGACGTGGCAGACCTCTGTGAGGATCCGATY
105292 P T S CGCGCCGAGGATCTGTGAGGATCCGATGY
105292 T G S CTCTCATCGGATCCTCACAGAGGACCGACAACAAGACAGGAGAGGTGCTGATCTCC
105292 T T S CTCTCATCGGATCCTCACAGATGACCGACAACAAGACAGGAGAGGTGCTGATCTCC
105292 IS [GT] GGAAGGAGGCGCGGAGGAGGAAAGCAGGTTTGCTCTCACTCTCTCATCGGATCCTCACAGA[GT]GACCGACAACAAGACAGGAGAGGTGCTGATCTCCGAGAATGTGGTGGCATCCATTCAACC ctg14947 16
105293 I S CACTCGATGCCAAGAGGACTCAGACTGTGGAAT
105293 P G S CGCGCCGAGGCTTCCGTGCCCCCY
105293 P C S ATGACGTGGCAGACGGTTCCGTGCCCCCY
105293 T G S GGTGGGGGGCACGGAAGTTCCACAGTCTGAGTCCTCTTGGCATCGAGTGTC
105293 T C S GGTGGGGGGCACGGAACTTCCACAGTCTGAGTCCTCTTGGCATCGAGTGTC
105293 IS [GC] GGAAACATACAATATGAAAAATGCTACTTGCTCACCTTGGTGAGGGTGGGGGGGCACGGAA[GC]TTCCACAGTCTGAGTCCTCTTGGCATCGAGTGTCTGGAAATGGGCTATGAGCGCTTCCAG
105299 I S CTCTGGACTCCATTTAACAAAATGCACATTTTGGGGCAT
105299 P C S ATGACGTGGCAGACGATGTTTGTGTCCACAAATTAY
105299 P T S CGCGCCGAGGAATGTTTGTGTCCACAAATTACY
105299 T C S AGATGTAATTTGTGGACACAAACATCTGCCCCAAAATGTGCATTTTGTTAAATGGAGTCCAGAGAG
105299 T T S AGATGTAATTTGTGGACACAAACATTTGCCCCAAAATGTGCATTTTGTTAAATGGAGTCCAGAGAG
105299 IS [CT] GAGGCTACATAAGTTCTCCTGCTTGCTGGTAAAACAGATGTAATTTGTGGACACAAACAT[CT]TGCCCCAAAATGTGCATTTTGTTAAATGGAGTCCAGAGAGTGCAGTCTGTGTGGCCATCT ctg15842 19
105319 I S CCTCTACACCCAGATTGGGACCCGGTGA
105319 P A S CGCGCCGAGGTGATCGGCAGACGCY
105319 P G S ATGACGTGGCAGACCGATCGGCAGACGCY
105319 T A S GCCTGCGTCTGCCGATCACACCGGGTCCCAATCTGGGTGTAGAGGGC
105319 T G S GCCTGCGTCTGCCGATCGCACCGGGTCCCAATCTGGGTGTAGAGGGC
105319 IS [AG] ACCTGCGGCTCTCTGAAAGGCATCTATGGCACTCTCCAGCCCAGCCTGCGTCTGCCGATC[AG]CACCGGGTCCCAATCTGGGTGTAGAGGGCCCCAGTGTTGAACAGGACACTGGCCTTCTCC ctg15842 19
105327 I S CTTCGCCCCTGCAGCAAGGGTCTTGT
105327 P C S ATGACGTGGCAGACGCCCAGGTTCAGTCTY
105327 P T S CGCGCCGAGGACCCAGGTTCAGTCTTTY
105327 T C S TGGAAAAGACTGAACCTGGGCCAAGACCCTTGCTGCAGGGCGGAAGGG
105327 T T S TGGAAAAGACTGAACCTGGGTCAAGACCCTTGCTGCAGGGCGGAAGGG
105327 IS [CT] GCGGCTGACTGGCCAGGAGCAGACACCTCTTCTGGGCAGGTGGAAAAGACTGAACCTGGG[CT]CAAGACCCTTGCTGCAGGGCGGAAGGGCTGCTGGTCAGGAGTCCAGGGAATGGTGGGGAG ctg16564 19
105329 I A CAACCCAAGAGTTCAATTTGATTTTCTGGTCATTTTTCTTCCTCATTGT
105329 P G A ATGACGTGGCAGACGTATCTGCTTATTTCCATCATTAGY
105329 P A A CGGGCCGAGGATATCTGCTTATTTCCATCATTAGY
105329 T G A AGAGCTAATGATGGAAATAAGCAGATACACAATGAGGAAGAAAAATGACCAGAAAATGAAATTGAACTCTTGGGTTGAA
105329 T A A AGAGCTAATGATGGAAATAAGCAGATATACAATGAGGAAGAAAAATGACCAGAAAATGAAATTGAACTCTTGGGTTGAA
105329 IS [GA] CTTTCCAAATTCAACCCAAGAGTTCAATTTCATTTTCTGGTCATTTTTCTTCCTCATTGT[GA]TATCTGCTTATTTCCATCATTAGCTCTTGCATGTTTTCCTTCCAAGTTTTGCTTTTTTGGC ctg11 15
105339 I S CCTTCAATAAAATGAGTAATTTGATATACAGATCTTTTGAAGCTTTTTTCAGAGTT
105339 P C S ATGACGTGGCAGACGTAGTCACTCTCTACGAAY
105339 P T S CGCGCCGAGGAGTAGTCACTCTCTACGAAGY
105339 T C S TTCTCTTCGTAGAGAGTGACTACTACTCTGAAAAAAGCTTCAAAAGATCTGTATATCAAATTACTCATTTTATTGAAGGTT
105339 T T S TTCTCTTCGTAGAGAGTGACTACTACTCTGAAAAAAGCTTCAAAAGATCTGTATATCAAATTACTCATTTTATTGAAGGTT
105339 IS [CT] TACTGTGTGAGCAACAAGTATTAGATGCTGGATACTTTTCTCTTCGTAGAGAGTGACTAC[CT]ACTCTGAAAAAAGCTTCAAAAGATCTGTATATCAAATTACTCATTTTATTGAAGGTTTGT MULTIPLE MULTIPLE
105345 I A TTGGCCGGCCGCTCACCTA
105345 P C A ATGACGTGGCAGACCTCGGAATCTCGCCTY
105345 P T A CGCGCCGAGGTTCGGAATCTCGCCTY
105345 T C A CGGCAGGCGAGATTCCGAAGGTGAGCGGGCCGGCCAAGG
105345 T T A CGGCAGGCGAGATTCCGAAAGGTGAGCGGGCCGGCCAAGG
105345 IS [CT] AGTCGGCGCGGGCGCCCCTCGGCCCCGACGACGCCGTGACCTTGGCCGGCCGCTCACCT[CT]TCCGAATCTCGCCTGCCGGGACCGCGAAATGGGGGCGACCGCGGCTCCCTCTCCGTCGG ctg15422 X
105355 I A GCAGTATAACCTCACTTGTTTGTTGTTGTTTTTGTTTTTTTGTTTTTTC
105355 P G A ATGACGTGGCAGACGTTTTTTTTTTTAGCAGTCAACTCY
105355 P T A CGCGCCGAGGTTTTTTTTTTTAGCAGTCAACTCTY
105355 T G A AACAAGAGTTGACTGCTAAAAAAAAAAACAAAAAAACAAAAAAACAAAAAAACACAACAAACAAGTGAGGTTATACTGCTG
105355 T T A AACAAGAGTTGACTGCTAAAAAAAAAAAAAAAAAACAAAAAAACAAAAAAACACAACAAACAAGTGAGGTTATACTGCTG
105355 IS [GT] AGAGTTTCAGCAGTATAACCTCACTTGTTTTGTTGTTGTTTTTTGTTTTTTTGTTTTTTT[GT]TTTTTTTTTTAGCAGTCAACTCTTGTTTATCCTGTCATTTTAATTGTAATGATGGCCCTG ctg25099 7
105361 I A GGTGACAGGGACAACAGCAGGAGCAA
105361 P T A CGCGCCGAGGTGGAGGAAATCATGTCTTATTAAY
105361 P C A ATGACGTGGCAGACCGGAGGAAATCATGTCTTATY
105361 T T A TTGGTTAATAAGACATGATTTCCTCCATGCTCCTGCTGTTGTCCCCTGGTCACCTT
105361 T C A TTGGTTAATAAGACATGATTTCCTCCGTGCTCCTGCTGTTGTCCCCTGGTCACCTT
105361 IS [TC] CCTGGGAGGGCTCCATTCCTTTCCCAGCAAGAAAGGTGAGGAGGGACAACAGCAGGAGCA[TC]GGAGGAAATCATGTCTTATTAACCAAGTGTACTCCAAATTCCAGTAAAATTCCCAGATAT ctg15665 20
105366 I A GCAAGCAGCAATGGAACCAGATTTCGAAGCTCC
105366 P T A CGGCGCGAGGTCGTTTAAAGTCTTCATCAATATCY
105366 P G A ATGACGTGGCAGACGCGTTTAAAGTCTTCATCAATATY
105366 T T A TCTAGATATTGATGAAGACTTTAAACGAGAGCTTCGAAATCTGGTTCCATTGCTGCTTGCCC
105366 T G A TCTAGATATTGATGAAGACTTTAAACGCGAGCTTCGAAATCTGGTTCCATTGCTGCTTGCCC
105366 IS [TG] TATCTCTTTTTCTACCAAATTTTCAGGGGCAAGCAGCAATGGAACCAGATTTCGAAGCTC[TG]CGTTTAAAGTCTTCATCAATATCTAGAAAACAAAAAATTGAGCAACATATTAGTCCAAAA ctg17103 4
105376 I S GGTGCCTGCTGGAACAGCCAATTTCCAT
105376 P T S CGGCCCGAGGACTTCACAAGAGACAAACCY
105376 P G S ATGACGTGGCAGACCCTTCACAAGAGACAAACCY
105376 T T S GAATGGTTTGTCTCTTGTGAAGTTGGAAATTGGCTGTTCCAGCAGGCACCTT
105376 T G S GAATGGTTTGTCTCTTGTGAAGGTGGAAATTGGCTGTTCCAGCAGGCACCTT
105376 IS [TG] AAGTACCTGGATGAGTTAATGTTTCTTGCTCACAAAAGAATGGTTTGTCTCTTGTGAAG[TG]TGGAAATTGGCTGTTCCAGCAGGCACCTTTATCTTCATTATTTTCATACCTCCCTTCTTG ctg3454 17
105384 I S GGATGTTCCATAAGTATTTGTGAAATGGCACATGAAAGAAAT
105384 P C S ATGACGTGGCAGACGCTAACATATAAATTGTGGTGGY
105384 P T S CGGCCCGAGGACTAACATATAAATTGTGGTGGTY
105384 T C S TGAAACCACCACAATTTATATGTTAGCTTTCTTTCATGTGCCATTTCACAAATACTTATGGAACATCCAA
105384 T T S TGAAACCACCACAATTTATATGTTAGTTTTCTTTCATGTGCCATTTCACAAATACTTATGGAACATCCAA

FIGURE 129G

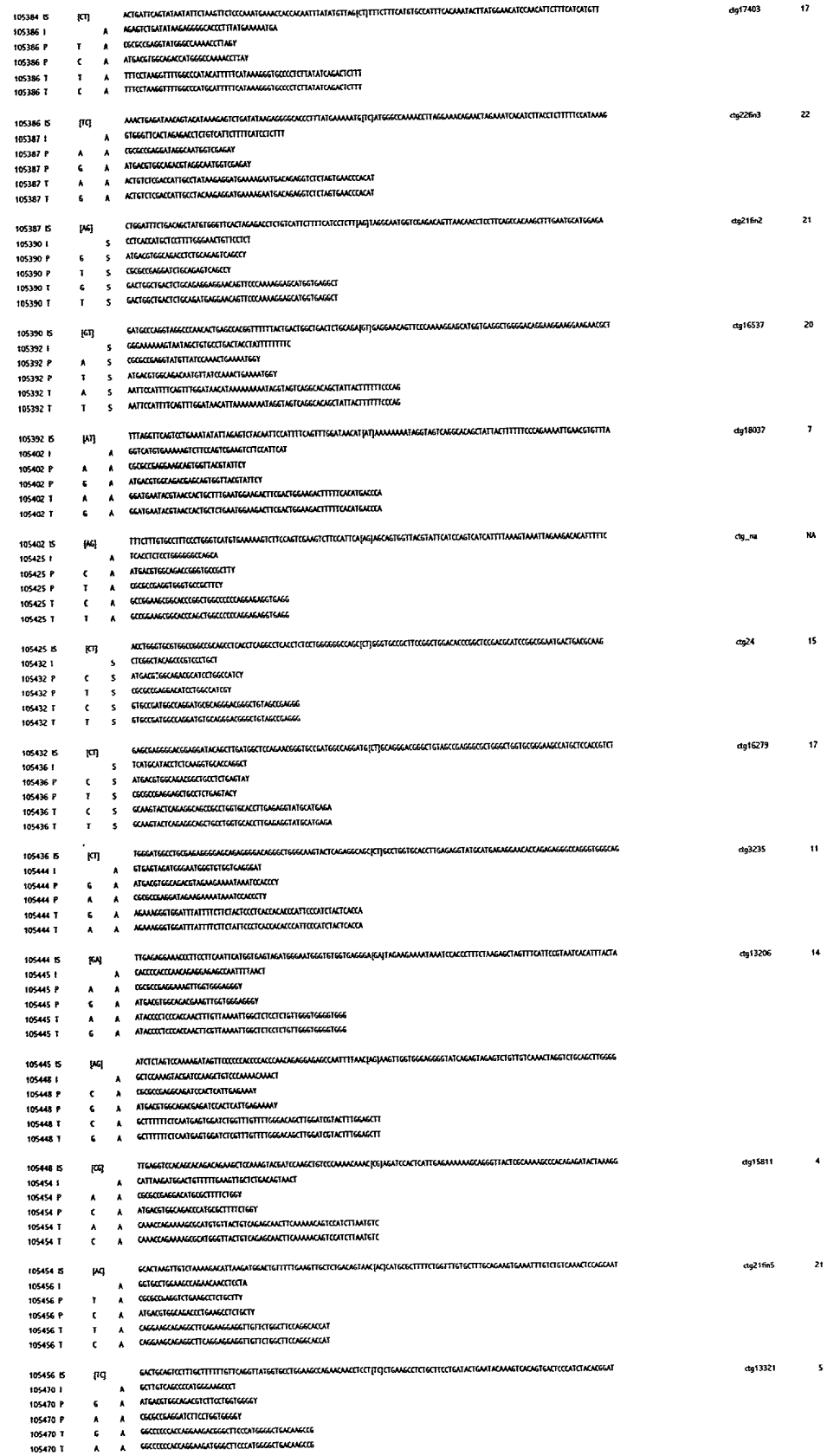

105384 IS [CT] ACTGATTCAGTATAATATTCTAAGTTCTCCCCAAATGAAACCACCACAATTTATATGTTAG[CT]TTTCTTTCATGTGCCATTTCACAAATACTTATGGAACATCCAACATTCTTTCATCATGTT ctg17403 17
105386 I A AGAGTCTGATATAAGAGGGGCACCCTTTATGAAAAATGA
105386 P T A CGCGCCGAGGTATGGCCAAAACCTTAGY
105386 P C A ATGACGTGGCAGACCATGGGCCAAAACCTTAY
105386 T T A TTTCCTAAGGTTTTGGCCCATACATTTTTCATAAAGGGTGCCCCTCTTATATCAGACTCTTT
105386 T C A TTTCCTAAGGTTTTGGCCCATGCATTTTTCATAAAGGGTGCCCCTCTTATATCAGACTCTTT
105386 IS [TC] AAACTGAGATAACAGTACATAAAGAGTCTGATATAAGAGGGGCACCCTTTATGAAAAATG[TC]ATGGGCCAAAACCTTAGGAAACAGAACTAGAAATCAGATCTTACCTCTTTTTCCATAAAG ctg226n3 22
105387 I A GTGGGTTCACTAGAGACCTCTGTCATTCTTTTCATCCTCTTT
105387 P A A CGCGCCGAGGATAGGCAATGGTCGAGAY
105387 P G A ATGACGTGGCAGACGTAGGCAATGGTCGAGAY
105387 T A A ACTGTCTCGACCATTGCCTATAAGAGGATGAAAAGAATGACAGAGGTCTCTAGTGAACCCACAT
105387 T G A ACTGTCTCGACCATTGCCTACAAGAGGATGAAAAGAATGACAGAGGTCTCTAGTGAACCCACAT
105387 IS [AG] CTGGATTTCTGACAGCTATGTGGGTTCACTAGAGACCTCTGTCATTCTTTTCATCCTCTT[AG]TAGGCAATGGTCGAGACAGTTAACAACCTCCTTCAGCCACAAGCTTTGAATGCATGGAGA ctg21fin2 21
105390 I S CCTCACCATGCTCCTTTGGGAACTGTTCCTCT
105390 P G S ATGACGTGGCAGACCTCTGCAGAGTCAGCCY
105390 P T S CGCGCCGAGGATCTGCAGAGTCAGCCY
105390 T G S GACTGGCTGACTCTGCAGAGGAGGAACAGTTCCCAAAAGGAGCATGGTGAGGCT
105390 T T S GACTGGCTGACTCTGCAGATGAGGAACAGTTCCCAAAAGGAGCATGGTGAGGCT
105390 IS [GT] GATGCCCAGGTAGGCCCAACACTGAGCCACGGTTTTTTACTGACTGGCTGACTCTGCAGA[GT]GAGGAACAGTTCCCAAAAGGAGCATGGTGAGGCTGGGGACAGGAAGGAAGGAAGAACGCT ctg16537 20
105392 I S GGGAAAAAGTAATAGCTGTGCCTGACTACCTATTTTTTTTC
105392 P A S CGCGCCGAGGTATGTTATCCAAACTGAAAATGGY
105392 P T S ATGACGTGGCAGACAATGTTATCCAAACTGAAAATGGY
105392 T A S AATTCCATTTTCAGTTTGGATAACATAAAAAAAAATAGGTAGTCAGGCACAGCTATTACTTTTTCCCCAG
105392 T T S AATTCCATTTTCAGTTTGGATAACATTAAAAAAAATAGGTAGTCAGGCACAGCTATTACTTTTTCCCCAG
105392 IS [AT] TTTAGGTTCAGTCCTGAAATATATTAGAGTCTACAATTCCATTTTCAGTTTGGATAACAT[AT]AAAAAAAATAGGTAGTCAGGCACAGCTATTACTTTTTTCCCAGAAAATTGAACGTGTTTA ctg18037 7
105402 I A GGTCATGTGAAAAAGTCTTCCAGTCGAAGTCTTCCATTCAT
105402 P A A CGCGCCGAGGAAGCAGTGGTTACGTATTCY
105402 P G A ATGACGTGGCAGACGAGCAGTGGTTACGTATTCY
105402 T A A GGATGAATACGTAACCACTGCTTTGAATGGAAGACTTCGACTGGAAGACTTTTTCACATGACCCA
105402 T G A GCATGAATACGTAACCACTGCTCTGAATGGAAGACTTCGACTGGAAGACTTTTTCACATGACCCA
105402 IS [AG] TTTCTTTGTGCCTTTCCCTGGGTCATGTGAAAAAGTCTTCCAGTCGAAG7CTTCCATTCA[AG]AGCAGTGGTTACGTATTCATCCAGTCATCATTTTAAAGTAAATTAGAAGACACATTTTTC ctg_na NA
105425 I A TCACCTCTCCTGGGGGGCCAGCA
105425 P C A ATGACGTGGCAGACCGGGGTGCCGCTTY
105425 P T A CGCGCCGAGGTGGGTGCCGCTTCY
105425 T C A GCCGGAAGCGGCAACCGGCTGGCCCCCCAGGAGAGGTGAGG
105425 T T A GCCGGAAGCGGCAACCCAGCTGGCCCCCCAGGAGAGGTGAGG
105425 IS [CT] AGCTGGGTGCCGTGGCCGGCCGCAGCCTCACCTCAGGCCTCACCTCTCCTGGGGGGCCAGC[CT]GGGTGCCGCTTCCGGCCTGGACACCCGGCTCCCACGCATCCGGCCGAATGACTGACGCAAG ctg24 15
105432 I S CTCGGCTACAGCCCGTCCCTGCT
105432 P C S ATGACGTGGCAGAGCGCATCCTGGCCATCY
105432 P T S CGCGCCCCAGGACATCCTGGCCATCGY
105432 T C S GTGCCGATGGCCAGGATGCGCAGGGACGGGCTGTAGCCCAGGG
105432 T T S GTGCCGATGGCCAGGATGTGCAGGGACGGGCTGTAGCCCAGGG
105432 IS [CT] GAGCGAGGGGACGGAGGATACAGCTTGATGGCTCCAGAACGGGTGCCGATGGCCAGGATG[CT]GCAGGGACCGGGCTGTAGCCCAGGGCGCTGGGCTGGTGCGGGAAGCCATGCTCCACCGTCT ctg16279 17
105436 I S TCATGCATACCTCTCAAGGTGCACCAGGCT
105436 P C S ATGACGTGGCAGACGGCTGCCTCTGAGTACY
105436 P T S CGCGCCGAGGAGCTGCCTCTGAGTACY
105436 T C S GCAAGTACTCAGAGGCAGCCGCCTGGTGCACCTTGAGAGGTATGCATGAGA
105436 T T S GCAAGTACTCAGAGGCAGCTGCCTGGTGCACCTTGAGAGGTATGCATGAGA
105436 IS [CT] TGGGATGGCCTGCGAGAGGGGAGCAGAGGGGACAGGCTGGGCAAGTACTCAGAGGCAGC[CT]GCCTGGTGCACCTTGAGAGGTATGCATGAGAGGAACACCAGAGAGGCCAGGGTGGGCAG ctg3235 11
105444 I A GTGAGTAGATGGGAATGGGTGTGGTGAGGAT
105444 P G A ATGACGTGGCAGACGTAGAAGAAAATAAATCCACCCY
105444 P A A CGCGCCGAGGATAGAAGAAAATAAATCCACCCTY
105444 T G A AGAAAGGGTGGATTTATTTTCTTCTACTCCCTCACCACACCCATTCCCATCTACTCACCA
105444 T A A AGAAAGGGTGGATTTATTTTCTTCTATTCCCTCACCACACCCATTCCCATCTACTCACCA
105444 IS [GA] TTGAGAGGAAACCCTTCCTTCAATTCATGGTGAGTAGATGGGAATGGGTGTGGTGAGGGA[GA]TAGAAGAAAATAAATCCACCCTTTCTAAGAGCTAGTTTCATTCCGTAATCACATTTACTA ctg13206 14
105445 I A CACCCCACCCAACAGAGGAGAGCCAATTTTAACT
105445 P A A CGCGCCGAGGAAAGTTGGTGGGAGGGY
105445 P G A ATGACGTGGCAGACGAAGTTGGTGGGAGGGY
105445 T A A ATACCCCTCCCACAACTTGTTAAAATTGGCTCTCCTCTGTTGGGTGGGGTGGG
105445 T G A ATACCCCTCCCACAACTTGTTAAAATTGGCTCTCCTCTGTTGGGTGGGGTGGG
105445 IS [AG] ATCTCTAGTCCAAAAGATAGTTCCCCCCACCCCACCCAACAGAGGAGAGCCAATTTTAAC[AG]AAGTTGGTGGGAGGGGTATCAGAGTAGAGTCTGTTGTCAAACTAGGTCTGCAGCTTGGGG
105448 I A GCTCCAAAGTACGATCCAAGCTGTCCCAAAACAAACT
105448 P C A CGCGCCCAGGCAGATCCAACTCATTGAGAAAY
105448 P G A ATGACGTGGCAGACGAGATCCACTCATTGAGAAAAY
105448 T C A GCTTTTTTCTCAATGAGTGGATCTGGTTTGTTTTGGGACAGCTTGGATCGTACTTTGGAGCTT
105448 T G A GCTTTTTTCTCAATGAGTGGATCTGGTTTGTTTTGGGACAGCTTGGATCGTACTTTGGAGCTT
105448 IS [CG] TTGAGGTCCACAGCACAGACAGAAGCTCCAAAGTACGATCCAAGCTGTCCCAAAACAAAC[CG]AGATCCACTCATTGAGAAAAAGCAGGGTTACTCGCAAAAGCCCACAGAGATACTAAAGG ctg15811 4
105454 I A CATTAAGATGGACTGTTTTTGAAGTTGCTCTGACAGTAACT
105454 P A A CGCGCCGAGGACATGCGCTTTTCTGGY
105454 P C A ATGACGTGGCAGACCCATGCGCTTTTCTGGY
105454 T A A CAAACAGAAAAGCGCATGTGTTACTGTCAGAGCAACTTCAAAAACAGTCCATCTTAATGTC
105454 T C A CAAACAGAAAAGCGCATGGGTTACTGTCAGAGCAACTTCAAAAACAGTCCATCTTAATGTC
105454 IS [AC] GCACTAAGTTGTCTAAAAGACATTAAGATGGACTGTTTTTGAAGTTGCTCTGACAGTAAC[AC]CATGCGCTTTTCTGGTTTGTGCTTTGCAGAAGTGAAATTTGTCTGTCAAACTCCAGCAAT ctg21fin5 21
105456 I A GGTGCCTGGAAGCCAGAACAACCTCCTA
105456 P T A CGCGCCAAGGTCTGAAGCCTCTGCTTY
105456 P C A ATGACGTGGCAGACCCTGAAGCCTCTGCTY
105456 T T A CAGGAAGCAGAGGCTTCAGAAGGAGGTTGTTCTGGCTTCCAGGCACCAT
105456 T C A CAGGAAGCAGAGGCTTCAGGAGGAGGTTGTTCTGGCTTCCAGGCACCAT
105456 IS [TC] GACTGCAGTCCTTTGCTTTTTTGTTCAGGTTATGGTGCCTGGAAGCCAGAACAACCTCCT[TC]CTGAAGCCTCTGCTTCCTGATACTGAATACAAAGTCACAGTGACTCCCATCTACACGGAT ctg13321 5
105470 I A GCTTGTCAGCCCCATGGGAAGCCCT
105470 P G A ATGACGTGGCAGACGTCTTCCTGGTGGGGY
105470 P A A CGCGCCGAGGATCTTCCTGGTGGGGY
105470 T G A GGCCCCCCACCAGGAAGACGGCTTCCCATGGGGCTGACAAGCCG
105470 T A A GGCCCCCCACCAGGAAGATGGGCTTCCCATGGGGCTGACAAGCCG

FIGURE 129G

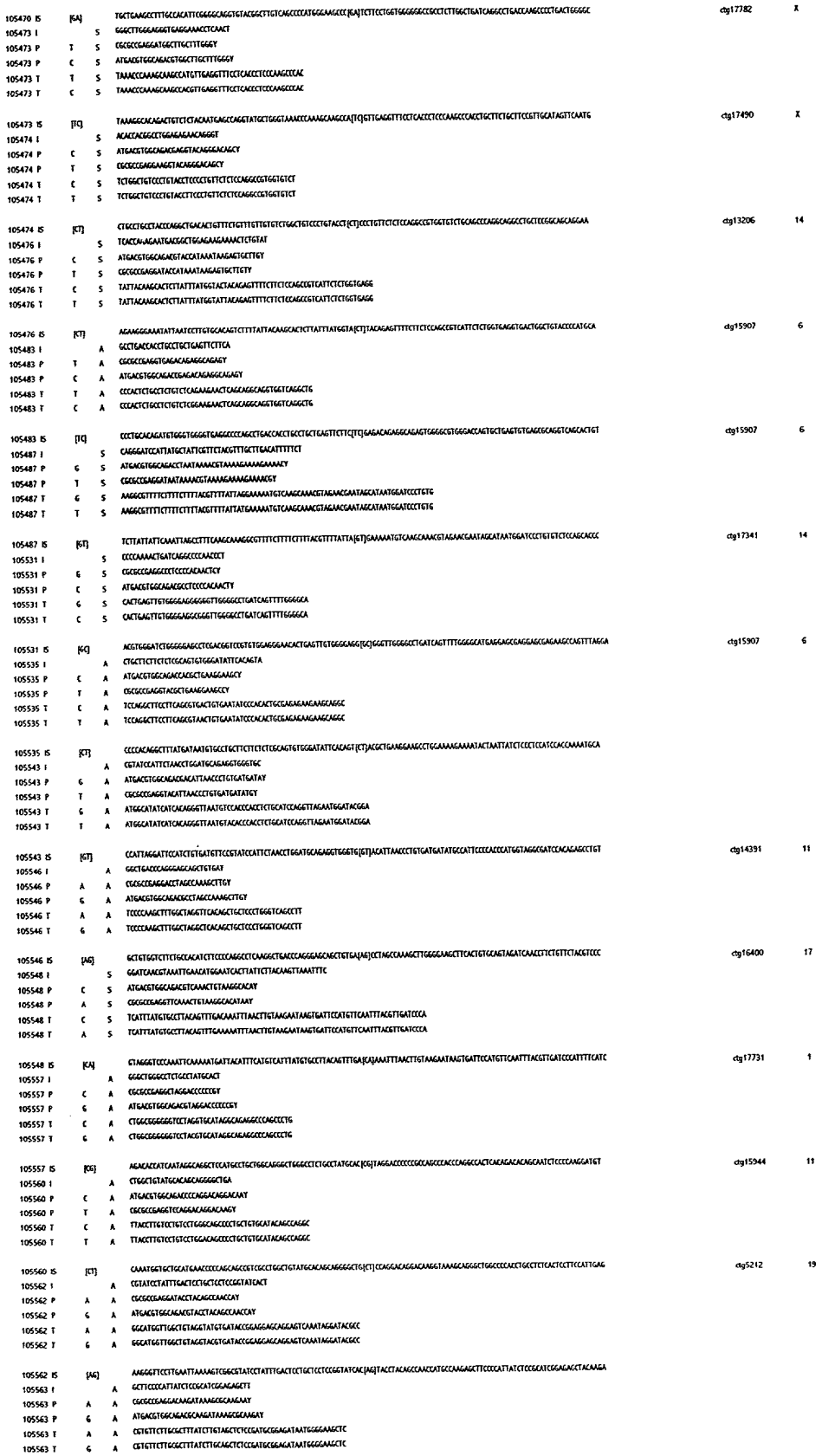
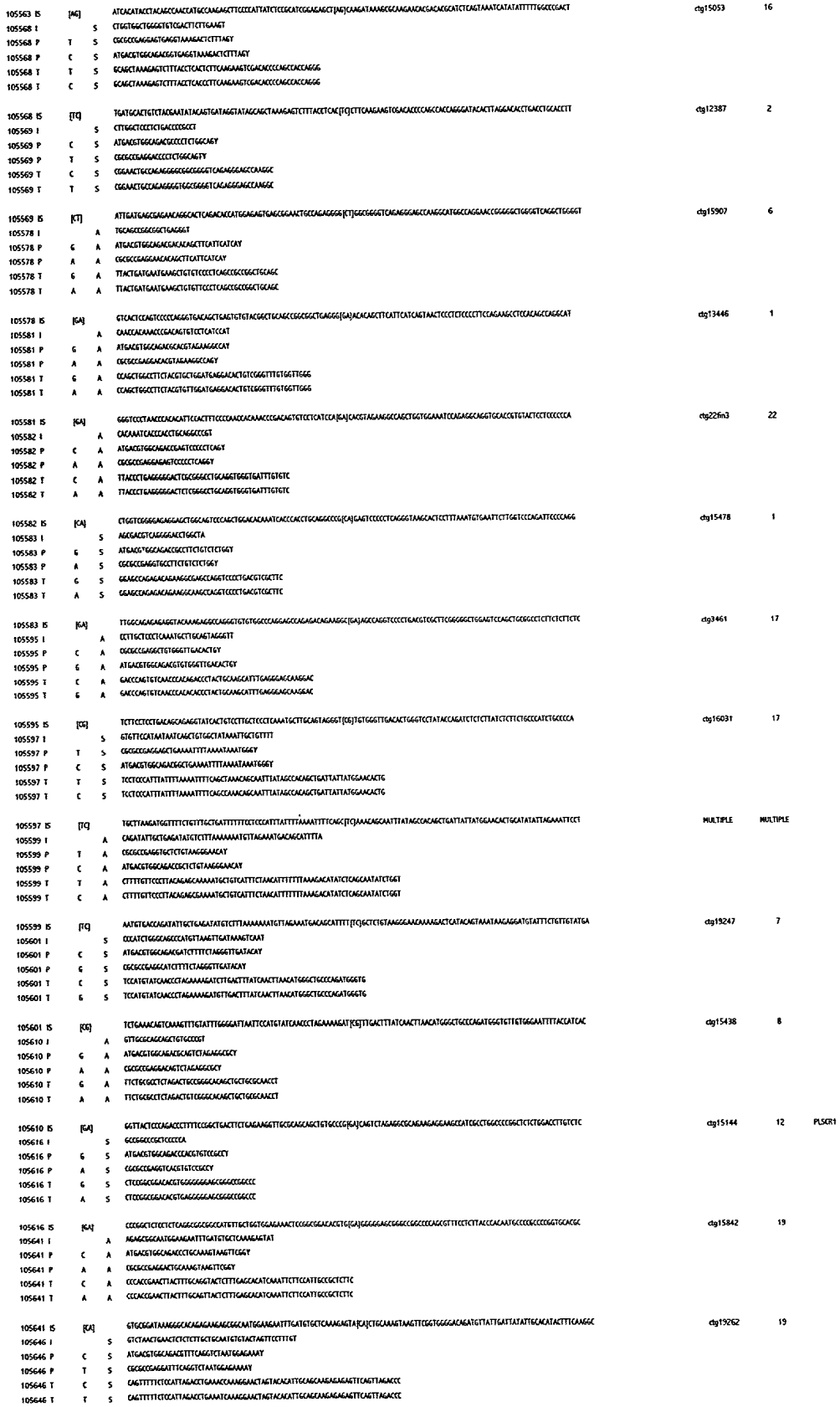
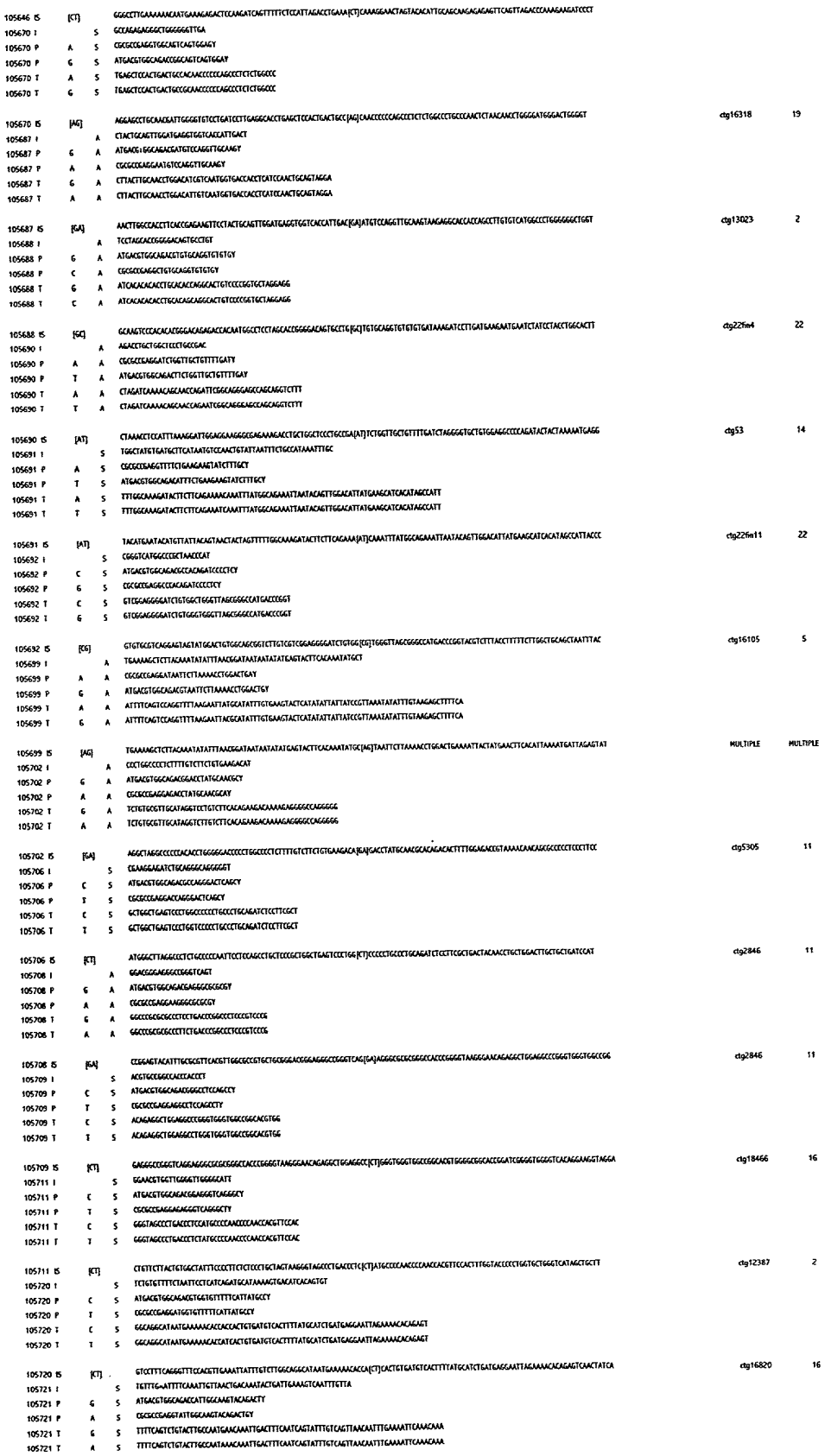


FIGURE 129G



Confidential and Proprietary Information of Celera Genomics

FIGURE 129G


105646 IS [CT] GGGCCTTGAAAAAACAATGAAAGAGACTCCAAGATCAGTTTTTCTCCATTAGACCTGAAA[CT]CAAAGGAACTAGTACACATTGCAGCAAGAGAGAGTTCAGTTAGACCCAAAGAAGATCCCT
105670 I S GCCAGAGAGGGCTGGGGGGTTGA
105670 P A S CGCGCCGAGGTGGCAGTCAGTGGAGY
105670 P G S ATGACGTGGCAGACGGCAGTCAGTGGAT
105670 T A S TGAGCTCCACTGACTGCCACAACCCCCCAGCCCTCTCTGGCCC
105670 T G S TGAGCTCCACTGACTGCCGCAACCCCCCAGCCCTCTCTGGCCC
105670 IS [AG] AGGAGCCTGCAACGATTGGGGTGTCCTGATCCTTGAGGCACCTGAGCTCCACTGACTGCC[AG]CAACCCCCCAGCCCTCTCTGGCCCTGCCCAACTCTAACAACCTGGGGATGGGACTGGGGT ctg16318 19
105687 I A CTACTGCAGTTTGGATGAGGTGGTCACCATTGACT
105687 P G A ATGACG:GGCAGACGATGTCCAGGTTGCAAGY
105687 P A A CGCGCCGAGGAATGTCCAGGTTGCAAGY
105687 T G A CTTACTTGCAACCTGGACATCGTCAATGGTGACCACCTCATCCAACTGCAGTAGGA
105687 T A A CTTACTTGCAACCTGGACATTGTCAATGGTGACCACCTCATCCAACTGCAGTAGGA
105687 IS [GA] AACTTGGCCACCCTTCACCGAGAAGTTCCTACTGCAGTTGGATGAGGTGGTCACCATTGAC[GA]ATGTCCAGGTTGCAAGTAACAGGCACCACCACGCCTTGTGTCATGGCCCTGGGGGGCTGGT ctg13023 2
105688 I A TCCTAGCACCGGGGACAGTGCCTGT
105688 P G A ATGACGTGGCAGACGTGTGCAGGTGTGTGY
105688 P C A CGCGCCGAGGCTGTGCAGGTGTGTGY
105688 T G A ATCACACACACCTGCACACCAGGCACTGTCCCCGGTGCTAGGAGG
105688 T C A ATCACACACACCTGCACAGCAGGCACTGTCCCCGGTGCTAGGAGG
105688 IS [GC] GCAAGTCCCACACACGGGACAGAGACCACAATGGCCTCCTAGCACCGGGGACAGTGCCTG[GC]TGTGCAGGTGTGTGTGATAAAGATCCTTGATGAAGAATGAATCTATCCTACCTGGCACTT ctg22fm4 22
105690 I A AGACCTGCTGGCTCCCTGCCGAC
105690 P A A CGCGCCGAGGATCTGGTTGCTGTTTTGATY
105690 P T A ATGACGTGGCAGACTTCTGGTTGCTGTTTTGAY
105690 T A A CTAGATCAAAACAGCAACCAGAATCGGCAGGGAGCAGCCAGCAGGTCTTT
105690 T T A CTAGATCAAAACAGCAACCAGAATCGGCAGGGAGCAGCCAGCAGGTCTTT
105690 IS [AT] CTAAACCTCCATTTAAAGGATTGGAGGAAAGGGCGAGAAAGACCTGCTGGCTCCCTGCCGA[AT]CTGGTTGCTGTTTTGATCTAGGGGTGCTGTGGAGCCCCAGATACTACTAAAAATGAGG ctg53 14
105691 I S TGGCTATGTGATGCTTCATAATGTCCAACTGTATTAATTTCTGCCATAAATTTGC
105691 P A S CGCGCCGAAGTTTTCTGAAGAAGTATCTTTGCT
105691 P T S ATGACGTGGCAGACATTTCTGAAGAAGTATCTTTGCY
105691 T A S TTTGGCAAAGATACTTCTTCAGAAATCAAATTTATGGCAGAAATTAATACAGTTGGACATTATGAAGCATCACATAGCCATT
105691 T T S TTTGGCAAAGATACTTCTTCAGAAATCAAATTTATGGCAGAAATTAATACAGTTGGACATTATGAAGCATCACATAGCCATT
105691 IS [AT] TACATGAATACATGTTATTACAGTAACTACTAGTTTTGGCAAAGATACTTCTTCAGAAA[AT]CAAATTTATGGCAGAAATTAATACAGTTGGACATTATGAAGCATCACATAGCCATTACCC ctg22fm11 22
105692 I S CGGGTCATGGCCCGCTAACCCAT
105692 P C S ATGACGTGGCAGACGCCACAGATCCCCTCY
105692 P G S CGCGCCGAGGCCCACAGATCCCCTCY
105692 T C S GTCGCAGGGGGATCTGTGGCTGGGTTAGCGGGCCATGACCCGGT
105692 T G S GTCGGAGGGGGATCTGTGGGTGGGTTAGCGGGCCATGACCCGGT
105692 IS [CG] GTGTGCGTCAGGAGTAGTATGCACTGTGGCAGCGGTCTTGTCGTCGGAGGGGATCTGTGG[CG]TGGGTTAGCGGGCCATGACCCGGTACGTCTTTACCTTTTTCTTGGCTGCAGCTAATTTAC ctg16105 5
105699 I A TGAAAAGCTCTTACAAATATATTTAACGGATAATAATATATGAGTACTTCACAAATATGC[AG]TAATTCTTAAAACTGGACTGAAAATTACTATGAACTTCACATTAAAATGATTAGAGTAT MULTIPLE MULTIPLE
105699 P A A CGCGCCGAGGATAATTCTTAAAACCTGGACTGY
105699 P G A ATGACGTGGCAGACGTAATTCTTAAAACCTGGACTGY
105699 T A A ATTTTCAGTCCAGGTTTTAAGAATTATGCATATTTGTGAAGTACTCATATATTATTATCCGTTAAATATATTTGTAAGAGCTTTTCA
105699 T G A ATTTTCAGTCCAGGTTTTAAGAATTACGCATATTTGTGAAGTACTCATATATTATTATCCGTTAAATATATTTGTAAGAGCTTTTCA
105699 IS [AG] TGAAAAGCTCTTACAAATATATTTAACGGATAATAATATATGAGTACTTCACAAATATGC[AG]TAATTCTTAAAACTGGACTGAAAATTACTATGAACTTCACATTAAAATGATTAGAGTAT MULTIPLE MULTIPLE
105702 I A CCCTGGCCCCCTCTTTTGTCTTCTGTGAAGACAT
105702 P G A ATGACGTGGCAGACGGACCTATGCAACGCY
105702 P A A CGCGCCGAGGAGACCTATGCAACGCAY
105702 T G A TCTGTGCGTTGCATAGGTCCTGTCTTCACACAGAAGACAAAAGAGGGGCCAGGGGG
105702 T A A TCTGTGCGTTGCATAGGTCTTGTCTTCACACAGAAGACAAAAGAGGGGCCAGGGGG
105702 IS [GA] AGGCTAGGCCCCCACACCTGGGGGCACCCCCTGGCCCCTCTTTTGTCTTCTGTGAAGACA[GA]GACCTATGCAACGCACAGACACTTTTGGAGACCGTAAAACAACAGCGCCCCCTCCCTCC ctg5305 11
105706 I S CGAAGGAGATCTGCAGGGCAGGGGGT
105706 P C S ATGACGTGGCAGACGCCAGGGACTCAGCY
105706 P T S CGCGCCGAAGGACAGGGACTCAGCY
105706 T C S GCTGGCTGAGTCCCTGGCCCCCCTGCCCTGCAGATCTCCTTCGCT
105706 T T S GCTGGCTGAGTCCCTGGTCCCCCTGCCCTGCAGATCTCCTTCGCT
105706 IS [CT] ATGGGCTTAGGCCCTCTGCCCCCAATTCCTCCAGCCTGCTCCCGCTGGCTGAGTCCCTGG[CT]CCCCCTGCCCTGCAGATCTCCTTCGCTGACTACAACCTGCTGGACTTGCTGCTGATCCAT ctg2846 11
105708 I A GGACGGAGAGGCCCGGGTCAGT
105708 P G A ATGACGTGGCAGACGAGGGCGCGCGY
105708 P A A CGCGCCGAGGAAGGGCGCGCGY
105708 T G A GGCCCGCGCGCCCTCCTGACCGGCCCTCCCGTCCCG
105708 T A A GGCCCGCGCGCCCTTCTGACCGGCCCTCCCGTCCCG
105708 IS [GA] CCGGAGTACATTTGCGCGTTCACGTTGGCGCCGTGCTGCGGGACGGGAGGGCCGGGTCAG[GA]AGGGCGCGCGGCCACCCGGGGTAAGGGAACAGAGGCTGGAGGCCCGGGTGGCGTGGCGCGG ctg2846 11
105709 I S ACGTGCCGGCCACCCACCCT
105709 P C S ATGACGTGGCAGACGGGCCTCCAGCCY
105709 P T S CGCGCCGAGGAGGCCTCCAGCCTY
105709 T C S ACAGAGGCTGGAGGCCCGGGTGGGTGGCCGGCACGTGG
105709 T T S ACAGAGGCTGGAGGCCTGGGTGGGTGGCCGGCACGTGG
105709 IS [CT] GAGGGCCGGGTCAGGAGGGCGCGCGGGCCACCCGGGGTAAGGGAACAGAGGCTGGAGGCC[CT]GGGTGGGTGGCCGGCACGTGGGGCGGCACCGGATCGGGGTGGGGTCACAGGAAGGTAGGA ctg18466 16
105711 I S GGAACGTGGTTGGGGTTGGGGCATT
105711 P C S ATGACGTGGCAGACGGAGGGTCAGGGCY
105711 P T S CGCGCCGAGGAGACGGTCAGGGCTY
105711 T C S GGGTAGCCCTGACCCTCCATGCCCCAACCCCAACCACGTTCCAC
105711 T T S GGGTAGCCCTGACCCTCTATGCCCCAACCCCAACCACGTTCCAC
105711 IS [CT] CTGTTCTTACTGTGGCTATTTCCCCTTCTCTCCCTGCTAGTAAGGGTAGCCCTGACCCTC[CT]ATGCCCCAACCCCAACCACGTTCCACTTTGGTACCCCCTGGTGCTGGGTCATAGCTGCTT ctg12387 2
105720 I S TCTGTGTTTTCTAATTCCTCATCAGATGCATAAAAGTGACATCACAGTGT
105720 P C S ATGACGTGGCAGACGTGGTGTTTTTCATTATGCCY
105720 P T S CGCGCCGAGGATGGTGTTTTTCATTATGCCY
105720 T C S GGCAGGCATAATGAAAAACACACACTGTGATGTCACTTTTATGCATCTGATGAGGAATTAGAAAACACAGAGT
105720 T T S GGCAGGCATAATGAAAAACACATCACTGTGATGTCACTTTTATGCATCTGATGAGGAATTAGAAAACACAGAGT
105720 IS [CT] GTCCTTTCAGGGTTTCCACGTTGAAATTATTTGTCTTGGCAGGCATAATGAAAAACACCA[CT]CACTGTGATGTCACTTTTATGCATCTGATGAGGAATTAGAAAACACAGAGTCAACTATCA ctg16820 16
105721 I S TGTTTG-ATTTTCAAATTGTTAACTGACAAATACTCATTGAAAGTCAATTTGTTA
105721 P G S ATGACGTGGCAGACCATTGGCAAGTACAGACTY
105721 P A S CGCGCCGAGGTATTGGCAAGTACAGACTGY
105721 T G S TTTTCAGTCTGTACTTGCCAATGAACAAATTGACTTTCAATCAGTATTTGTCAGTTAACAATTTGAAAATTCAAACAAA
105721 T A S TTTTCAGTCTGTACTTGCCAATAAACAAATTGACTTTCAATCAGTATTTGTCAGTTAACAATTTGAAAATTCAAACAAA

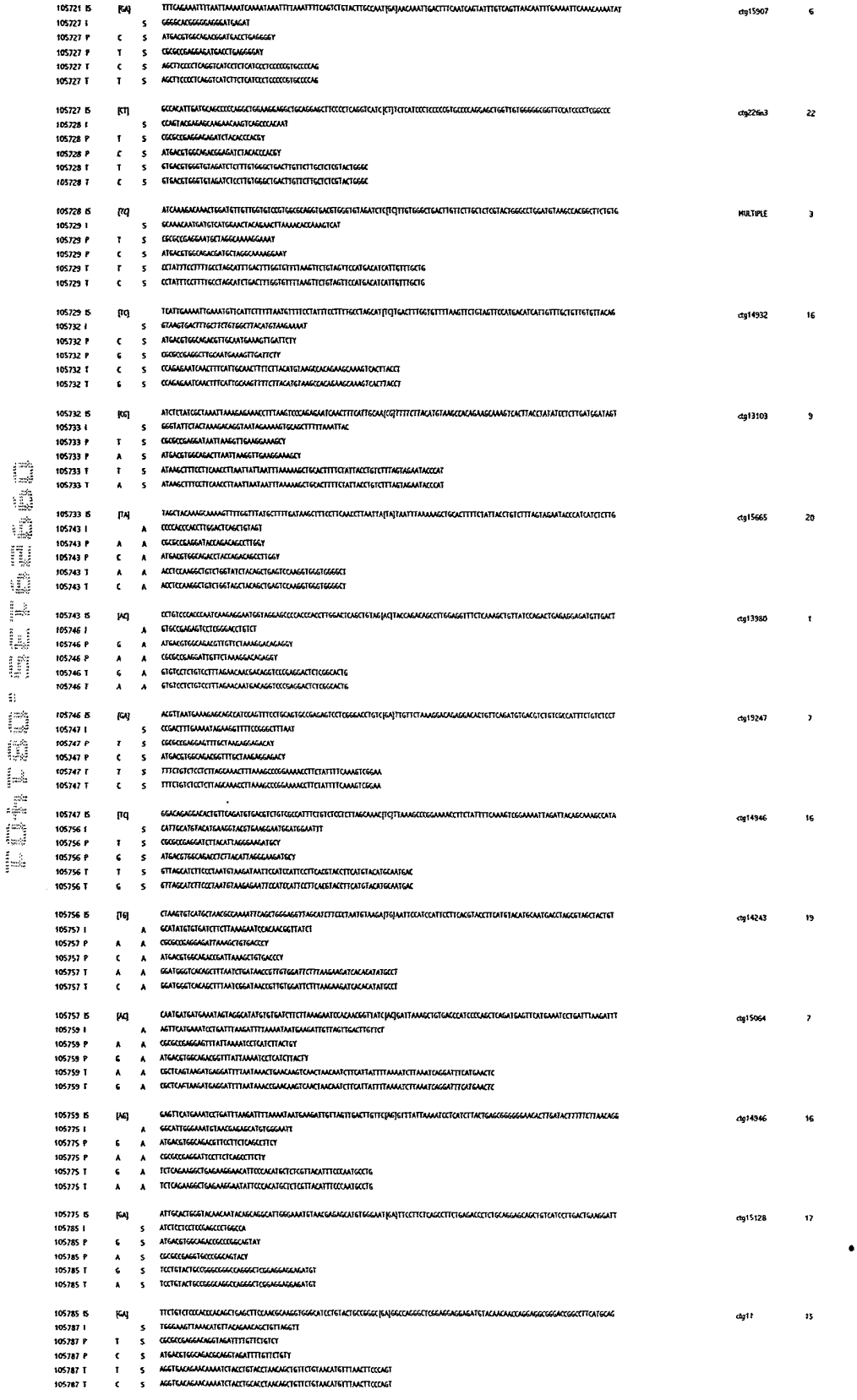
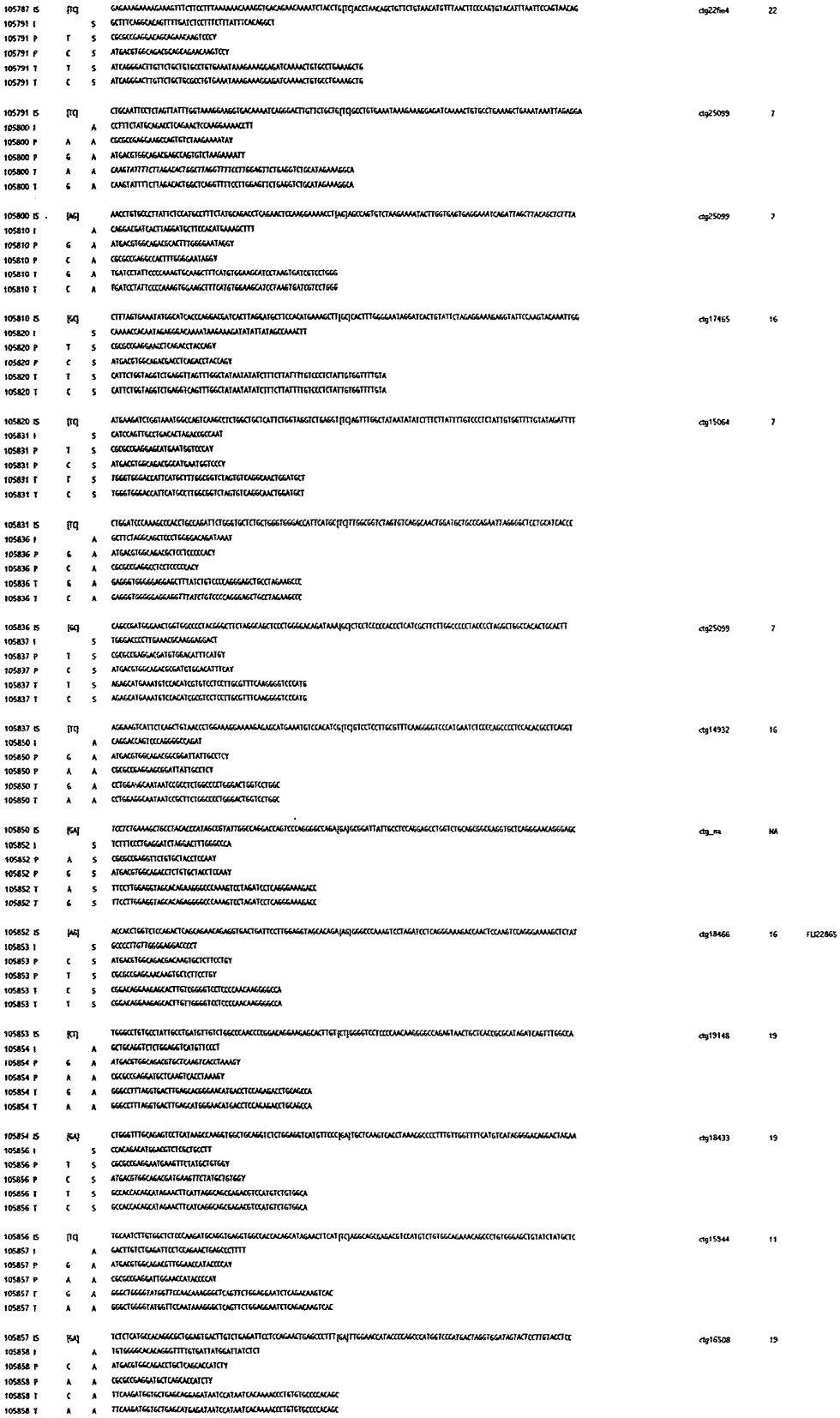


FIGURE 129G



Applicant's Docket No. 21599-0001CP1

FIGURE 129G

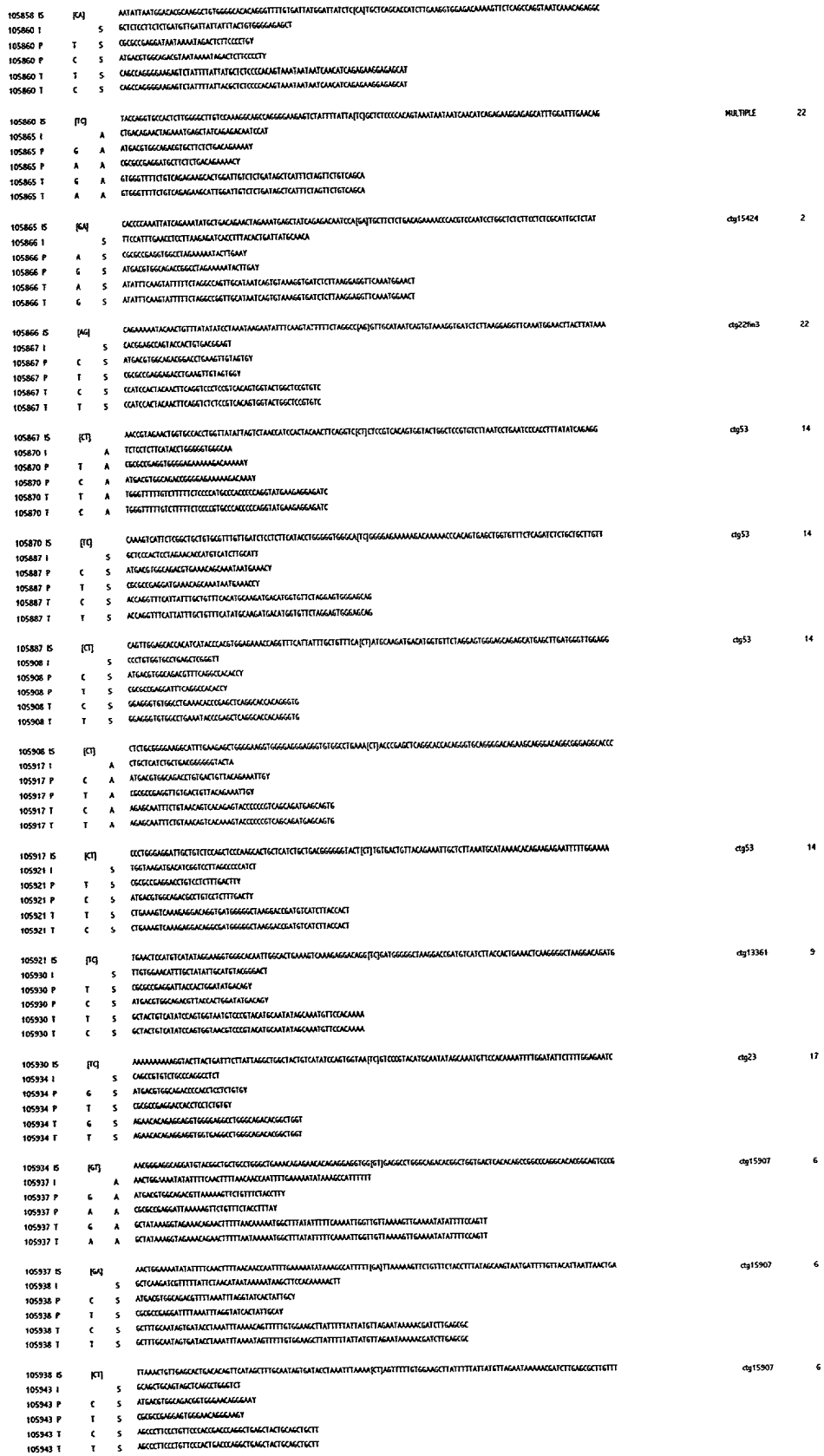

105858 IS [GA] AATATTAATGGACACGCAAGGCTGTGGGGCACACAGGGTTTTGTGATTATGGATTATCTC[CA]TGCTCAGCACCATCTTGAAGGTGGAGACAAAAGTTCTCAGCCAGGTAATCAAACAGAGGC
105860 I S GCTCTCCTCTCTGATGTTGATTATTATTTACTGTGGGGAGAGCT
105860 P T S CGCGCCCAGGATAATAAAATAGACTCTTCCCCTGY
105860 P C S ATGACGTGGCAGACGTAATAAAATAGACTCTTCCCCTY
105860 T T S CAGCCAGGGGAAGAGTCTATTTTATTATAGCTCTCCCCCACAGTAAATAATAATCAACATCAGAGAAGGAGAGCAT
105860 T C S CAGCCAGGGGAAGAGTCTATTTTATTACGCTCTCCCCCACAGTAAATAATAATCAACATCAGAGAAGGAGAGCAT
105860 IS [TC] TACCAGGTGCCACTCTTGGGGCTTGTCCAAAGGCAGCCAGCAGGGAAGAGTCTATTTTATTA[TC]GCTCTCCCCACAGTAAATAATAATCAACATCAGAGAAGGAGAGCATTTGGATTTGAACAG MULTIPLE 22
105865 I A CTGACAGAACTAGAAATGAGCTATCAGAGACAATCCAT
105865 P G A ATGACGTGGCAGACGTGCTTCTCTGACAGAAAAY
105865 P A A CGCGCCCAGGATGCTTCTCTGACAGAAAACY
105865 T G A GTGGGTTTTCTGTCAGAGAAGCACTGGATTGTCTCTGATAGCTCATTTCTAGTTCTGTCAGCA
105865 T A A GTGGGTTTTCTGTCAGAGAAGCATTGGATTGTCTCTGATAGCTCATTTCTAGTTCTGTCAGCA
105865 IS [GA] CACCCCAAATTATCAGAAATATGCTGACAGAACTAGAAATGAGCTATCAGAGACAATCCA[GA]TGCTCTCTCTGACAGAAAACCCACGTCCATCCTGGCTCTCTTCCTCTCGCATTGCTCTAT ctg15424 2
105866 I S TTCCATTTGAACCTCCTTAAGAGATCACCTTTACACTGATTATGCAACA
105866 P A S CGCGCCCAGAGGTGGCCTAGAAAAATACTTGAAY
105866 P G S ATGACGTGGCAGACCGGCCTAGAAAAATACTTGAY
105866 T A S ATATTTCAAGTATTTTTCTAGGCCAGTTGCATAATCAGTGTAAAGGTGATCTCTTAAGGAGGTTCAAATGGAACT
105866 T G S ATATTTCAAGTATTTTTCTAGGCCGGTTGCATAATCAGTGTAAAGGTGATCTCTTAAGGAGGTTCAAATGGAACT
105866 IS [AG] CAGAAAAATACAACTGTTTATATATCCTAAATAAGAATATTTCAAGTATTTTCTAGGCC[AG]GTTGCATAATCAGTGTAAAGGTGATCTCTTAAGGAGGTTCAAATGGAACTTACTTATAAA ctg22fm3 22
105867 I S CACGGAGCCAGTACCACTGTGACGGAGT
105867 P C S ATGACGTGGCAGACGGACCTGAAGTTGTAGTGY
105867 P T S CGCGCCCAGGAGACCTGAAGTTGTAGTGGY
105867 T C S CCATCCACTACAACTTCAGGTCCTCCCGTCACAGTGGTACTGGCTCCGTGTC
105867 T T S CCATCCACTACAACTTCAGGTCTCTCCGTCACAGTGGTACTGGCTCCGTGTC
105867 IS [CT] AACCGTAGAACTGGTGCCACCTGGTTATATTAGTCTAACCATCCACTACAACTTCAGGTC[CT]CTCCGTCACAGTGGTACTGGCTCCGTGTCTTAATCCTGAATCCCACCTTTATATCAGAGG ctg53 14
105870 I A TCTCCTCTTCATACCTGGGGGTGGGCAA
105870 P T A CGCGCCGAGGTGGGGACAAAAAGACAAAAY
105870 P C A ATGACGTGGCAGACGGGCGAGAAAAAGACAAAAY
105870 T T A TGGGTTTTTGTCTTTTTCTCCCCATGCCCACCCCCAGGTATGAAGAGGAGATC
105870 T C A TGGGTTTTTGTCTTTTTCTCCCCGTGCCCACCCCCAGGTATGAAGAGGAGATC
105870 IS [TC] CAAAGTCATTCTCGGCTGCTGTGGCTTTGTTGATCTCCTCTTCATACCTGGGGGTGGGCA[TC]GGGGAGAAAAAGACAAAAACCCACAGTGAGCTGGTGTTTCTCAGATCTCTGCTGCTTGTT ctg53 14
105887 I S GCTCCCACTCCTAGAACACCATGTCATCTTGCATT
105887 P C S ATGACGTGGCAGACGTGAAACAGCAAATAATGAAACY
105887 P T S CGCGCCGAGGATGAAACAGCAAATAATGAAACCY
105887 T C S ACCAGGTTTCATTATTTGCTGTTTCATGCAAGATGACATGGTGTTCTAGGAGTGGGAGCAG
105887 T T S ACCAGGTTTCATTATTTGCTGTTTCATATGCAAGATGACATGGTGTTCTAGGAGTGGGAGCAG
105887 IS [CT] CAGTTGGAGEACCACATCATACCCACGTGGAGAAAACAGGTTTCATTATTTGCTGTTTCA[CT]ATGCAAGATGACATGGTGTTCTAGGAGTGGGAGCAGGATGAGCTTGATGGGTTGGAGG ctg53 14
105908 I S CCCTGTGGTGCCTGAGCTCGGGTT
105908 P C S ATGACGTGGCAGACGTTTCAGGCACACCY
105908 P T S CGCGCCCAGGATTTCAGGCACACCY
105908 T C S GGAGGGTGTGGCCTGAAACACCCGAGCTCAGGCACCACAGGGTG
105908 T T S GGAGGGTGTGGCCTGAAATACCCGAGCTCAGGCACCACAGGGTG
105908 IS [CT] CTCTGCGGGGAAGGCATTTGAAGAGCTGGGGAAGGTGGGGAGGGAGGGTGTGGCCTGAAA[CT]ACCCGAGCTCAGGCACCACAGGGTGCAGGGGACAGAAGCAGGGACAGGCGGGAGGCACCC
105917 I A CTGCTCATCTGCTGAGGGGGGTACTA
105917 P C A ATGACGTGGCAGACCTGTGACTGTTACAGAAATTGY
105917 P T A CGCGCCGAGGTTGTGACTGTTACAGAAATTGY
105917 T C A AGAGCAATTTCTGTAACAGTCACAGAGTACCCCCCGTCAGCAGATGAGCAGTG
105917 T T A AGAGCAATTTCTGTAACAGTCACAAAGTACCCCCCGTCAGCAGATGAGCAGTG
105917 IS [CT] CCCTGGGAGGATTGCTGTCTCCAGCTCCCAAGCACTGCTCATCTGCTGACGGGGGGTACT[CT]TGTGACTGTTACAGAAATTGCTCTTAAATGCATAAAACACAGAAGAGAATTTTTGGAAAA ctg53 14
105921 I S TGGTAAGATGACATCGGTCCTTAGCCCCATCT
105921 P T S CGCGCCCAGGAACCTGTCCTCTTTGACTTY
105921 P C S ATGACGTGGCAGACGCCTGTCCTCTTTGACTY
105921 T T S CTGAAAGTCAAAGAGGACAGGTGATGGGGGCTAAGGACCGATGTCATCTTACCACT
105921 T C S CTGAAAGTCAAAGAGGACAGGCGATGGGGGCTAAGGACCGATGTCATCTTACCACT
105921 IS [TC] TGAACTCCATGTCATATAGCAAGGTGGGCACAATTGGCACTGAAAGTCAAAGAGGACAGG[TC]GATGGGGGCTAAGGACCGATGTCATCTTACCACTGAAACTCAAGGGGCTAAGGACAGATG ctg13361 9
105930 I S TTGTGGAACATTTGCTATATTGCATGTACGGGACT
105930 P T S CGCGCCGAGGATTACCACTGGATATGACAGY
105930 P C S ATGACGTGGCAGACGTTACCACTGGATATGACAGY
105930 T T S GCTACTGTCATATCCAGTGGTAATGTCCCTACATGCAATATAGCAAATGTTCCACAAAA
105930 T C S GCTACTGTCATATCCAGTGGTAACGTCCCGTACATGCAATATAGCAAATGTTCCACAAAA
105930 IS [TC] AAAAAAAAAGGTACTTACTGATTCTTATTAGGCTGGCTACTGTCATATCCAGTGGTAA[TC]GTCCCGTACATGCAATATAGCAAATGTTCCACAAAATTTTGGATATTCTTTTGGAGAATC ctg23 17
105934 I S CAGCCGTGTCTGCCCAGGCCTCT
105934 P G S ATGACGTGGCAGACCCCACCTCCTCTGTGY
105934 P T S CGCGCCGAGGACCACCTCCTCTGTGY
105934 T G S AGAACACAGAGGCAGGTGGGGAGGCCTGGGCAGACACGGCTGGT
105934 T T S AGAACACAGAGGAGGGTGGTGAGGCCTGGGCAGACACGGCTGGT
105934 IS [GT] AAGGGAGGCAGGATGTACGGCTGCTGCCTGGGCTGAAACAGAGAACACAGAGGAGGTGG[GT]GAGGCCTGGGCAGACACGGCTGGTGACTCACACAGCCGGCCCAGGCACAGCGCAGTCCCG ctg15907 6
105937 I A AACTGGAAAATATATTTTCAACTTTTAACAACCAATTTTGAAAAATATAAAGCCATTTTTT
105937 P G A ATGACGTGGCAGACGTTAAAAAGTTCTGTTTCTACCTTY
105937 P A A CGCGCCGAGGATTAAAAAGTTCTGTTTCTACCTTTAY
105937 T G A GCTATAAAGGTAGAAACAGAACTTTTTAACAAAAATGGCTTTATATTTTTCAAAATTGGTTGTTAAAAGTTGAAAATATATTTTCCAGTT
105937 T A A GCTATAAAGGTAGAAACAGAACTTTTTAATAAAAATGGCTTTATATTTTTCAAAATTGGTTGTTAAAAGTTGAAAATATATTTTCCAGTT
105937 IS [GA] AACTGGAAAATATATTTTCAACTTTTAACAACCAATTTTGAAAAATATAAAGCCATTTTT[GA]TTAAAAAGTTCTGTTTCTACCTTTATAGCAAGTAATGATTTTGTTACATTAATTAACTGA ctg15907 6
105938 I S GCTCAAGATCGTTTTTATTCTAACATAATAAAAATAAGCTTCCACAAAAACTT
105938 P C S ATGACGTGGCAGACGTTTTAAATTTAGGTATCACTATTGCY
105938 P T S CGCGCCGAGGATTTTAAATTTAGGTATCACTATTGCAY
105938 T C S GCTTTGCAATAGTGATACCTAAATTTAAAACAGTTTTTGTGGAAGCTTATTTTTATTATGTTAGAATAAAAACGATCTTGAGCGC
105938 T T S GCTTTGCAATAGTGATACCTAAATTTAAAATAGTTTTTGTGGAAGCTTATTTTTATTATGTTAGAATAAAAACGATCTTGAGCGC
105938 IS [CT] TTAAACTGTTGAGCACTGACACAGTTCATAGCTTTGCAATAGTGATACCTAAATTTAAAA[CT]AGTTTTTGTGGAAGCTTATTTTTATTATGTTAGAATAAAAACGATCTTGAGCGCTTGTTT ctg15907 6
105943 I S GCAGCTGCAGTAGCTCAGCCTGGGTCT
105943 P C S ATGAGCTGGCAGACGGTGGGAACAGGGAAT
105943 P T S CGCGCCGAGGAGTGGGAACAGGGAAGY
105943 T C S AGCCCTTCCCTGTTCCCACCGACCCAGGCTGAGCTACTGCAGCTGCTT
105943 T T S AGCCCTTCCCTGTTCCCACTGACCCAGGCTGAGCTACTGCAGCTGCTT

FIGURE 129G

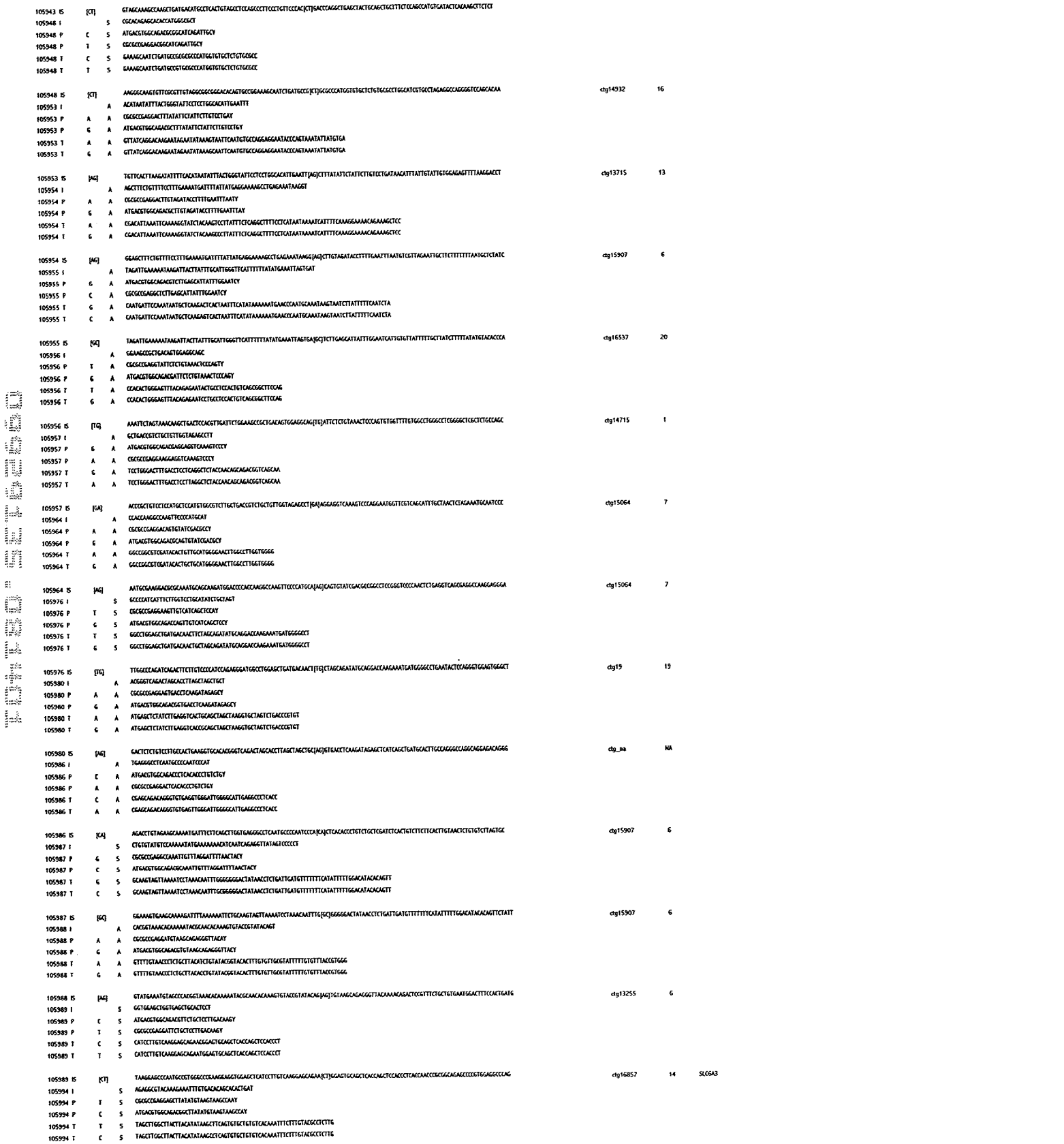

105943 IS [CT] GTAGCAAAGCCAAGCTGATGACATGCCTCACTGTAGCCTCCAGCCCCTTCCCTGTTCCCACJCT]GACCCAGGCTGAGCTACTGCAGCTGCTTTCTCCAGCCATGTGATACTCACAAGCTTCTCT
105948 I S CGCACAGAGCACACCATGGGCGCT
105948 P C S ATGACGTGGCAGACGCGGCATCAGATTGCY
105948 P T S CGCGCCGAGGACGGCATCAGATTGCY
105948 T C S GAAAGCAATCTGATGCCGCGCGCCCATGGTGTGCTCTGTGCGCC
105948 T T S GAAAGCAATCTGATGCCGTGCGCCCATGGTGTGCTCTGTGCGCC
105948 IS [CT] AAGGGCAAGTGTTCGCGTTGTAGGCGGCGGGACACAGTGCCGGAAAGCAATCTGATGCCG[CT]GCGCCCATGGTGTGCTCTGTGCGCCTGGCATCGTGCCTAGAGGCCAGCGGGTCCAGCACAA ctg14932 16
105953 I A ACATAATATTTACTGGGTATTCCTCCTGGCACATTGAATTT
105953 P A A CGCGCCGAGGACTTTATATTCTATTCTTGTCCTGAY
105953 P G A ATGACGTGGCAGACGCTTTATATTCTATTCTTGTCCTGY
105953 T A A GTTATCAGGACAAGAATAGAATATAAAGTAATTCAATGTGCCAGGAGGAATACCCAGTAAATATTATGTGA
105953 T G A GTTATCAGGACAAGAATAGAATATAAAGCAATTCAATGTGCCAGGAGGAATACCCAGTAAATATTATGTGA
105953 IS [AG] TGTTCACTTAAGATATTTTCACATAATATTTACTGGGTATTCCTCCTGGCACATTGAATT[AG]CTTTATATTCTATTCTTGTCCTGATAACATTTATTGTATTGTGGAGAGTTTTAAGGACCT ctg13715 13
105954 I A AGCTTTCTGTTTTCCTTTGAAAATGATTTTATTATGAGGAAAAGCCTGAGAAATAAGG
105954 P A A CGCGCCGAGGACTTGTAGATACCTTTTGAATTTAATY
105954 P G A ATGACGTGGCAGACGCTTGTAGATACCTTTGAATTTAY
105954 T A A CGACATTAAATTCAAAAGGTATCTACAAGTCCTTATTTCTCAGGCTTTTCCTCATAATAAAATCATTTTCAAAGGAAAACAGAAAGCTCC
105954 T G A CGACATTAAATTCAAAAGGTATCTACAAGCCCTTATTTCTCAGGCTTTTCCTCATAATAAAATCATTTTCAAAGGAAAACAGAAAGCTCC
105954 IS [AG] GGAGCTTTCTGTTTTCCTTTGAAAATGATTTTATTATGAGGAAAAGCCTGAGAAATAAGG[AG]CTTGTAGATACCTTTTGAATTTAATGTCGTTAGAATTGCTTCTTTTTTTAATGCTCTATC ctg15907 6
105955 I A TAGATTGAAAAATAAGATTACTTATTTGCATTGGGTTCATTTTTTATATGAAATTAGTGA[GC]TCTTGAGCATTATTTGGAATCATTGTGTTATTTTTGCTTATCTTTTTATATGTACACCCA ctg16537 20
105956 I A GGAAGCCGCTGACAGTGGAGGCAGC
105956 P T A CGCGCCGAGGTATTCTCTGTAAACTCCCAGTY
105956 P G A ATGACGTGGCAGACGCATTCTCTGTAAACTCCCAGY
105956 T T A CCACACTGGGAGTTTACAGAGAATACTGCCTCCACTGTCAGCGGCTTCCAG
105956 T G A CCACACTGGGAGTTTACAGAGAATCCTGCCTCCACTGTCAGCGGCTTCCAG
105956 IS [TG] AAATTCTAGTAAACAAGCTGACTCCAGTTGATTCTGGAAGCCGCTGACAGTGGAGGCAG[TG]ATTCTCTGTAAACTCCCAGTGTGGTTTTGTGGCCTGGGCCTCGGGGCTCGCTCTGCCAGC ctg14715 1
105957 I A GCTGACCGTCTGCTGTTGGTAGAGCCTT
105957 P G A ATGACGTGGCAGACGAGGAGGTCAAAGTCCCY
105957 P A A CGCGCCGAGGAAGGAGGTCAAAGTCCCY
105957 T G A TCCTGGGACTTTGACCTCCTCAGGCTCTACCAACAGCAGACGGTCAGCAA
105957 T A A TCCTGGGACTTTGACCTCCTTAGGCTCTACCAACAGCAGACGGTCAGCAA
105957 IS [GA] ACCCGCTGTCCTCCATGCTCCATGTGGCGTCTTGCTGACCGTCTGCTGTTGGTAGAGCCT[GA]AGGAGGTCAAAGTCCCAGGAATGGTTCGTCAGCATTTGCTAACTCTAGAAATGCAATCCC ctg15064 7
105964 I A CCACCAAGGCCAAGTTCCCCATGCAT
105964 P A A CGCGCCGAGGACAGTGTATCGACGCY
105964 P G A ATGACGTGGCAGACGCAGTGTATCGACGCY
105964 T A A GGCCGGCGTCGATACACTGTTGCATGGGGAACTTGGCCTTGGTGGGG
105964 T G A GGCCGGCGTCGATACACTGCTGCATGGGGAACTTGGCCTTGGTGGGG
105964 IS [AG] AATGCGAAGGAGCGCAAATGCAGCAAGATGGACCCCACCAAGGCCAAGTTCCCCATGCA[AG]CAGTGTATCGACGCCGCCTCCCGGGTCCCCAACTCTGAGGTCAGCGAGGCCAAGGAGGGA ctg15064 7
105976 I S GCCCCATCATTTCTTGGTCCTCGCATATCTGCTAGT
105976 P T S CGCGCCGAGGAAGTTGTCATCAGCTCCAY
105976 P G S ATGACGTGGCAGACCAGTTGTCATCAGCTCCY
105976 T T S GGCCTGGAGCTGATGACAACTCTCAGCAGATATGCAGGACCAAGAAATGATGGGGGCT
105976 T G S GGCCTGGAGCTGATGACAACTGCTAGCAGATATGCAGGACCAAGAAATGATGGGGGCT
105976 IS [TG] TTGGCCCAGATCAGACTTCTTGTCCCCATCCAGAGGGATGGCCTGGAGCTGATGACAACT[TG]CTAGCAGATATGCAGGACCAAGAAATGATGGGGCCTGAATACTCCAGGGTGGAGTGGGCT ctg19 19
105980 I A ACGGGTCAGACTAGCACCTTAGCTAGCTGCT
105980 P A A CGCGCCGAGGAGTGACCTCAAGATAGAGCY
105980 P G A ATGACGTGGCAGACGGTGACCTCAAGATAGAGCY
105980 T A A ATGAGCTCTATCTTGAGGTCACTGCAGCTAGCTAAGGTGCTAGTCTGACCCGTGT
105980 T G A ATGAGCTCTATCTTGAGGTCACCGCAGCTAGCTAAGGTGCTAGTCTGACCCGTGT
105980 IS [AG] GACTCTCTGTCCTGCCACTGAAGGTGCACACGGGTCAGACTAGCACCTTAGCTAGCTGC[AG]GTGACCTCAAGATAGAGCTCATCAGCTGATGCACTTGCCAGGGCCAGGCAGGAGACAGGG ctg_aa NA
105986 I A TGAGGGCCTCAATGCCCCAATCCCAT
105986 P C A ATGACGTGGCAGACCCTCACACCCTGTCTGY
105986 P A A CGCGCCGAGGACTCACACCCTGTCTGY
105986 T C A CGAGCAGACAGGGTGTGAGGTGGGATTGGGGCATTGAGGCCCTCACC
105986 T A A CGAGCAGACAGGGTGTGAGTTGGGATTGGGGCATTGAGGCCCTCACC
105986 IS [CA] AGACCTGTAGAAGCAAAATGATTTCTTCAGCTTGGTGAGGGCCTCAATGCCCCAATCCCA[CA]CTCACACCCTGTCTGCTCGATCTCACTGTCTTCTTCACTTGTAACTCTGTGTCTTAGTGC ctg15907 6
105987 I S CTGTGTATGTCCAAAAATATGAAAAAAACATCAATCAGAGGTTATAGTCCCCCT
105987 P G S CGCGCCGAGGCCAAATTGTTAGGATTTTAACTACY
105987 P C S ATGACGTGGCAGACGCAAATTGTTTAGGATTTTAACTACY
105987 T G S GCAAGTAGTTAAAATCCTAAACAATTTGGGGGGGGACTATAACCTCTGATTGATGTTTTTTCATATTTTTGGACATACACAGTT
105987 T C S GCAAGTAGTTAAAATCCTAAACAATTTGCGGGGGGACTATAACCTCTGATTGATGTTTTTTCATATTTTTGGACATACACAGTT
105987 IS [GC] GGAAAGTGAAGCAAAAGATTTTAAAAAATTCTGCAAGTAGTTAAAATCCTAAACAATTTG[GC]GGGGGACTATAACCTCTGATTGATGTTTTTTCATATTTTTGGACATACACAGTTCTATT ctg15907 6
105988 I A CACGGTAAACACAAAAATACGCAACACAAAGTGTACCGTATACAGT
105988 P A A CGCGCCGAGGATGTAAGCAGAGGGTTACAY
105988 P G A ATGACGTGGCAGACGTGTAAGCAGAGGGTTACY
105988 T A A GTTTTGTAACCCTCTGCTTACACTCTGTATACGGTACACTTTGTGTTGCGTATTTTTGTGTTTACCGTGGG
105988 T G A GTTTTGTAACCCTCTGCTTACACCTGTATACGGTACACTTTGTGTTGCGTATTTTTGTGTTTACCGTGGG
105988 IS [AG] GTATGAAATGTAGCCCACGGTAAACACAAAATACGCAACACAAAGTGTACCGTATACAG[AG]TGTAAGCAGAGGGTTACAAAACAGACTCCGTTTCTGCTGTGAATGGACTTTCCACTGATG ctg13255 6
105989 I S GGTGGAGCTGGTGAGCTGCACTCCT
105989 P C S ATGACGTGGCAGACSTTCTGCTCCTTGACAAGY
105989 P T S CGCGCCGAGGATTCTGCTCCTTGACAAGY
105989 T C S CATCCTTGTCAAGGAGCAGAACGGAGTGCAGCTCACCAGCTCCACCCT
105989 T T S CATCCTTGTCAAGGAGCAGAATGGAGTGCAGCTCACCAGCTCCACCCT
105989 IS [CT] TAAGGAGCCCAATGCCCTGGGCCCGAAGGAGGTGGAGCTCATCCTTGTCAAGGAGCAGAA[CT]GGAGTGCAGCTCACCAGCTCCACCACCCCGCGGCAGAGCCCCGTGGAGGCCCAG ctg16857 14 SLCGA3
105994 I S AGAGGCGTACAAAGAAATTTGTGACACAGCACACTGAT
105994 P T S CGCGCCGAGGAGCTTATATGTAAGTAAGCCAAY
105994 P C S ATGACGTGGCAGACGGCTTATATGTAAGTAAGCCAY
105994 T T S TAGCTTGGCTTACTTACATATAAGCCTCAGTGTGCTGTGTCACAAATTTCTTTGTACGCCTCTTG
105994 T C S TAGCTTGGCTTACTTACATATAAGCCTCAGTGTGCTGTGTCACAAATTTCTTTGTACGCCTCTTG

FIGURE 129G

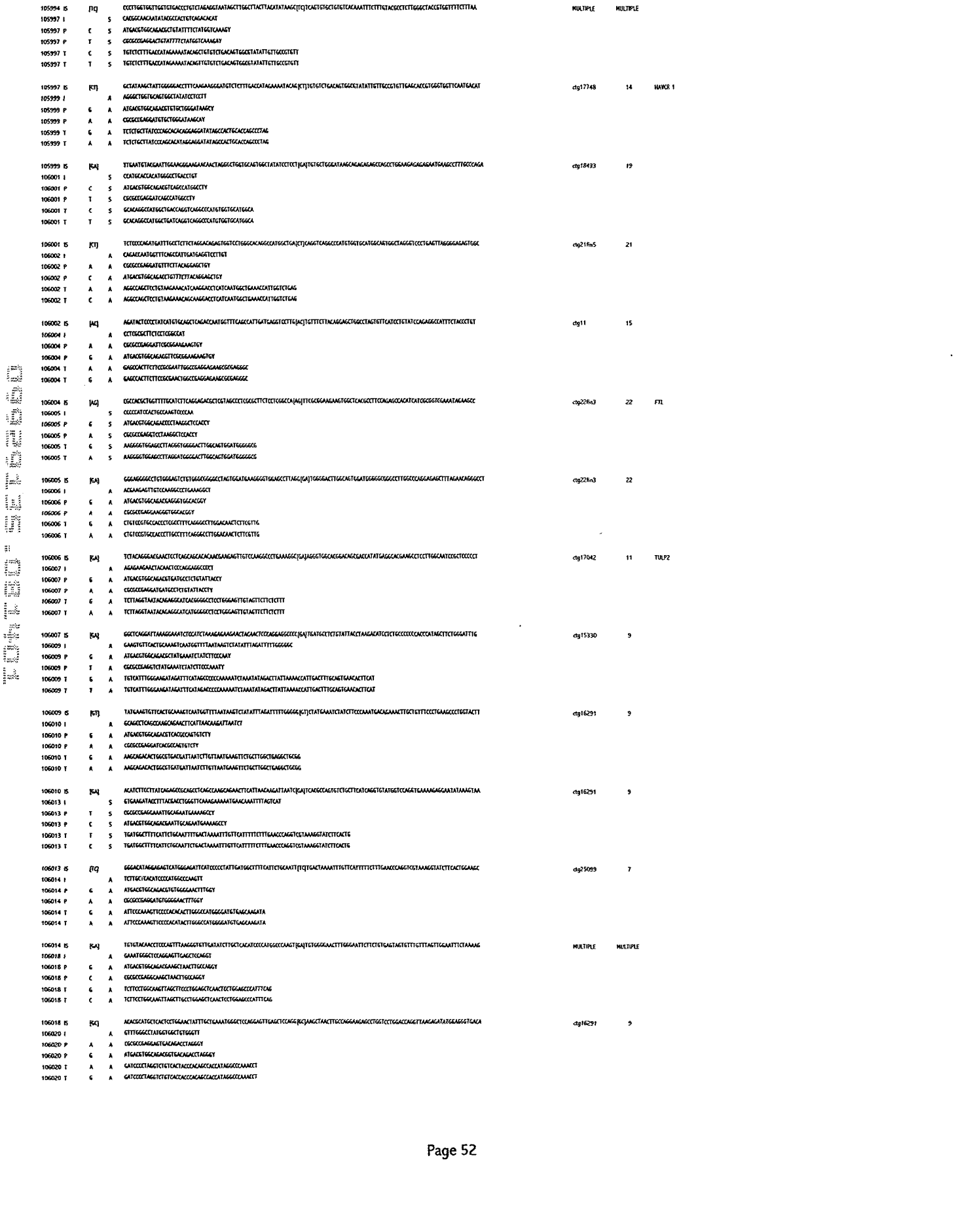
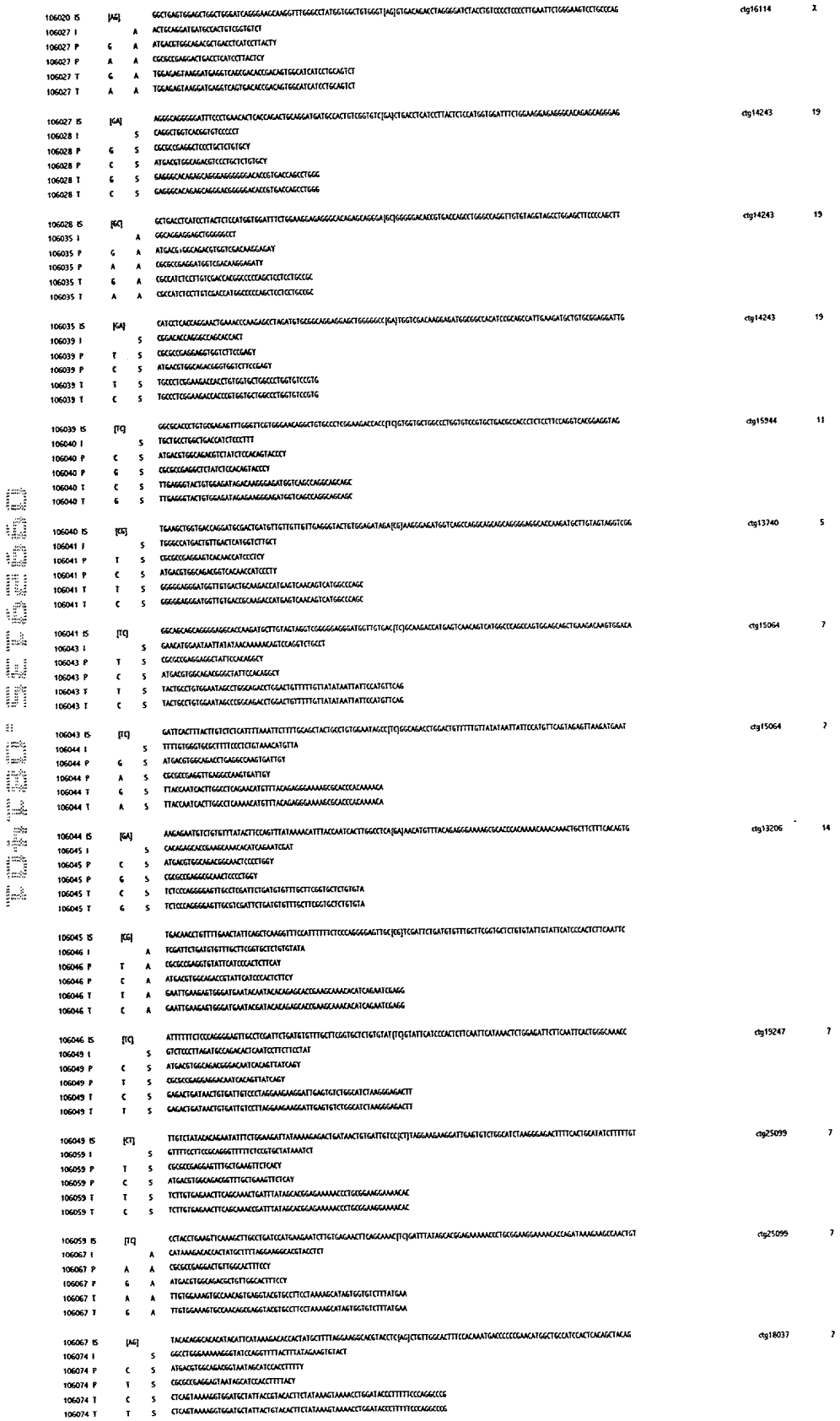

105994 IS [TC] CCCTTGGTGGTTGGTGTGACCCTGTCTAGAGGTAATAGCTTGGCTTACTTAGATATAAGC[TC]TCAGTGTGCTGTGTCACAAATTTCTTTGTACGCCTCTTGGGCTACCGTGGTTTTCTTTAA MULTIPLE MULTIPLE
105997 I S CAGGCAACAATATAGCCACTGTCAGACACAT
105997 P C S ATGACGTGGCAGACGCTGTATTTTCTATGGTCAAAGY
105997 P T S CGCGCCGAGGACTGTATTTTCTATGGTCAAAGAY
105997 T C S TGTCTCTTTGACCATAGAAAATACAGCTGTGTCTGACAGTGGGGTATATTGTTGCCGTGTT
105997 T T S TGTCTCTTTGACCATAGAAAATACAGTTGTGTCTGACAGTGGGGTATATTGTTGCCGTGTT
105997 IS [CT] GCTATAAGCTATTGGGGGGACCTTTCAAGAAGGGATGTCTCTTTGACCATAGAAAATACAG[CT]TGTGTCTGACAGTGGGCTATATTGTTGCCGTGTTGAGCACCGTGGGTGGTTCAATGACAT ctg17748 14 HAVCR 1
105999 I A AGGGCTGGTGCAGTGGCTATATCCTCTT
105999 P G A ATGACGTGGCAGACGTGTGCTGGGATAAGCY
105999 P A A CGCGCCGAGGATGTGCTGGGATAAGCAY
105999 T G A TCTCTGCTTATCCCAGCACAGGAGGATATAGCCACTGCACCAGCCCTAG
105999 T A A TCTCTGCTTATCCCAGCACATAGGAGGATATAGCCACTGCACCAGCCCTAG
105999 IS [GA] TTGAATGTACGAATTGGAAGGGAAGAACAACTAGGGCTGGTGCAGTGGCTATATCCTCCT[GA]TGTGCTGGGATAAGCAGAGAGAGCCAGCCTGGAAGAGAGAGATGAAGCCTTTGCCCAGA ctg18433 19
106001 I S CCATGCACCACATGGGCCTGACCTGT
106001 P C S ATGACGTGGCAGACGTCAGCCATGGCCTY
106001 P T S CGCGCCGAGGATCAGCCATGGCCTY
106001 T C S GCACAGGCCATGGCTGACCAGGTCAGGCCCATGTGGTGCATGGCA
106001 T T S GCACAGGCCATGGCTGATCAGGTCAGGCCCATGTGGTGCATGGCA
106001 IS [CT] TCTCCCCAGATGATTTGCCTCTCTAGCACAGAGTGGTCCTGGGCACAGGCCATGGCTGA[CT]CAGGTCAGGCCCATGTGGTGCATGGCAGTGGCTAGGGTCCCTGAGTTAGGGGAGAGTGGC ctg21fm5 21
106002 I A CAGACCAATGGTTTCAGCCATTGATGAGGTCCTTGT
106002 P A A CGCGCCGAGGATTCGCGGAAGAAGTGY
106002 P C A ATGACGTGGCAGACGTTCGCGGAAGAAGTGY
106002 T A A AGGCCAGCTCCTGTAAGAAACATCAAGGACCTCATCAATGGCTGAAACCATTGGTCTGAG
106002 T C A AGGCCAGCTCCTGTAAGAAACAGCAAGGACCTCATCAATGGCTGAAACCATTGGTCTGAG
106002 IS [AC] AGATACTCCCCTATCATGTGCAGCTCAGACCAATGGTTTCAGCCATTGATGAGGTCCTTG[AC]TGTTCTTACAGGAGCTGGCCTAGTGTTCATCCTGTATCCAGAGGCCATTTCTACCCTGT ctg11 15
106004 I A CCTCGCGCTTCTCCTCGGCCAT
106004 P A A CGCGCCGAGGATTCGCGGAAGAAGTGY
106004 P G A ATGACGTGGCAGACGTTCGCGGAAGAAGTGY
106004 T A A GAGCCACTTCTTCCGCGAATTGGCCCAGGAGAAGCGCGAGGGC
106004 T G A GAGCCACTTCTTCCGCGAACTGGCCCAGGAGAAGCGCGAGGGC
106004 IS [AG] CGCCACGCTGGTTTTGCATCTTCAGGAGACGCTCGTAGCCCTCGCGCTTCTCCTCGGCCA[AG]TTCGCGGAAGAAGTGGCTCACGCCTTCCAGAGCCACATCATCGCGGTCGAAATAGAAGCC ctg22fm3 22 FTI
106005 I S CCCCCATCCACTGCCAAGTCCCCAA
106005 P G S ATGACGTGGCAGACCCCTAAGGCTCCACCY
106005 P A S CGCGCCGAGGTCCTAAGGCTCCACCY
106005 T G S AAGGGGTGGAGCCTTAGGGTGGGGACTTGGCAGTGGATGGGGGCG
106005 T A S AAGGGGTGGAGCCTTAGGATGGGGACTTGGCAGTGGATGGGGGCG
106005 IS [GA] GGGAGGGGCCTGTGGGAGTCTGTGGGAGGGGCCTAGTGGATGAAGGGGTGGAGCCTTAGG[GA]TGGGGACTTGGCAGTGGATGGGGGCGGGCCTTGGCCCAGGAGAGCTTTAGAACAGGGCCT ctg22fm3 22
106006 I A ACGAAGAGTTGTCCAAGGCCTGAAAGGCT
106006 P G A ATGACGTGGCAGACGAGGGTGGCACGGY
106006 P A A CGCGCCGAGGAAGGGTGGCACGGY
106006 T G A CTGTCCGTGCCACCCTGCCTTTCAGGGCCTTGGACAACTCTTCGTTG
106006 T A A CTGTCCGTGCCACCCTTGCCTTTCAGGGCCTTGGACAACTCTTCGTTG
106006 IS [GA] TCTACAGGGACGAACTCCTCAGCAGCACACAACGAAGAGTTGTCCAAGGCCCTGAAAGGC[GA]AGGGTGGCACGGACAGCGACCATATGAGGCACGAAGCCTCCTTGGCAATCCGCTCCCCCT ctg17042 11 TULP2
106007 I A AGAGAAGAACTACAACTCCCAGGAGGCCCCT
106007 P G A ATGACGTGGCAGACGTGATGCCCTCTGTATTACCY
106007 P A A CGCGCCGAGGATGATGCCCTCTGTATTACCTY
106007 T G A TCTTAGGTAATACAGAGGCATCATGGGGCCTCCTGGGAGTTGTAGTTCTTCTCTTT
106007 T A A TCTTAGGTAATACAGAGGCATCATGGGGCCTCCTGGGAGTTGTAGTTCTTCTCTTT
106007 IS [GA] GGCTCAGGATTAAAGGAAATCTCCATCTAAAGAGAAGAACTACAACTCCCAGGAGGCCCC[GA]TGATGCCTCTGTATTACCTAAGACATCCTCTGCCCCCCCACCCATAGCTTCTGGGATTTG ctg15330 9
106009 I A GAAGTGTTCACTGCAAAGTCAATGGTTTTAATAAGTCTATATTTAGATTTTTGGGGG[CT]CTATGAAATCTATCTTCCCAAATGACAGAAACTTGCTGTTCCCTGAAGCCCTGGTACTT ctg16291 9
106009 P G A ATGACGTGGCAGACGTCACGCCAGTGTCTY
106009 P T A CGCGCCGAGGTCTATGAAATCTATCTTCCCAAAT
106009 T G A TGTCATTTGGGAAGATAGATTTCATAGCCCCCCAAAAATCTAAATATAGACTTATTAAAACCATTGACTTTGCAGTGAACACTTCAT
106009 T T A TGTCATTTGGGAAGATAGATTTCATAGACCCCCAAAAATCTAAATATAGACTTATTAAAACCATTGACTTTGCAGTGAACACTTCAT
106009 IS [GT] TATGAAGTGTTCACTGCAAAGTCAATGGTTTTAATAAGTCTATATTTAGATTTTTGGGGG[CT]CTATGAAATCTATCTTCCCAAATGACAGAAACTTGCTGTTCCCTGAAGCCCTGGTACTT ctg16291 9
106010 I A GCAGCCTCAGCCAAGCAGAACTTCATTAACAAGATTAATCT
106010 P G A ATGACGTGGCAGACGTCACGCCAGTGTCTY
106010 P A A CGCGCCGAGGATCACGCCAGTGTCTY
106010 T G A AAGCAGACACTGGCGTGATGATTAATCTTGTTAATGAAGTTCTGCTTGGCTGAGGCTGCGG
106010 T A A AAGCAGACACTGGCGTGATGATTAATCTTGTTAATGAAGTTCTGCTTGGCTGAGGCTGCGG
106010 IS [GA] ACATCTTCCTTATCAGAGCCGCAGCCTCAGCCAAGCAGAACTTCATTAACAAGATTAATC[GA]TCAGCCAGTGTCTGCTTCATCAGGTGTATGGTCCAGATGAAAAGAGGAATATAAAGTAA ctg16291 9
106013 I S GTGAAGATACCTTTACGAACTGGGTTCAAAGAAAAATGAACAAATTTTAGTCAT
106013 P T S CGCGCCGAGGAAATTGCAGAATGAAAAGCCY
106013 P C S ATGACGTGGCAGACGAATTGCAGAATGAAAAGCCY
106013 T T S TGATGGCTTTTCATTCTGCAATTTTGACTAAAATTTGTTCATTTTTCTTTGAACCCAGGTCGTAAAGGTATCTTCACTG
106013 T C S TGATGGCTTTTCATTCTGCAATTCTGACTAAAATTTGTTCATTTTTCTTTGAACCCAGGTCGTAAAGGTATCTTCACTG
106013 IS [TC] GGGACATAGGAGAGTCATGGGAGATTCATCCCCCTATTGATGGCTTTTCATTCTGCAATT[TC]TGACTAAAATTTGTTCATTTTTCTTTGAACCCAGGTCGTAAAGGTATCTTCACTGGAAGC ctg25099 7
106014 I A TCTTGCTCACATCCCCATGGCCCAAGTT
106014 P G A ATGACGTGGCAGACGTGTGGGGAACTTTGGY
106014 P A A CGCGCCGAGGATGTGGGGAACTTTGGY
106014 T G A ATTCCCAAAGTTCCCCACACACTTGGGCCATGGGGATGTGAGCAAGATA
106014 T A A ATTCCCAAAGTTCCCCACATACTTGGGCCATGGGGATGTGAGCAAGATA
106014 IS [GA] TGTGTACAACCTCCCAGTTTAAGGGTGTTGATATCTTGCTCACATCCCCATGGGCCCAAGT[GA]TGTGGGGAACTTTGGGAATTCTTCTGTGAGTAGTGTTTGTTTAGTTGGAATTTCTAAAAG MULTIPLE MULTIPLE
106018 I A GAAATGGGCTCCAGGAGTTGAGCTCCAGGT
106018 P G A ATGACGTGGCAGACGAAGCTAACTTGCCAGGY
106018 P C A CGCGCCGAGGCAAGCTAACTYGCCAGGY
106018 T G A TCTTCCTGGCAAGTTAGCTTCCCTGGAGCTCAACTCCTGGAGCCCATTTCAG
106018 T C A TCTTCCTGGCAAGTTAGCTTGCCTGGAGCTCAACTCCTGGAGCCCATTTCAG
106018 IS [GC] ACACGCATGCTCACTCCTGGAACTATTTGCTGAAATGGGCTCCAGGAGTTGAGCTCCAGG[GC]AAGCTAACTTGCCAGGAAGAGCCTGGTCCTGGACCAGGTTAAGAGATATGGAGGGTGACA ctg16291 9
106020 I A GTTTGGGCCTATGGTGGCTGTGGGTT
106020 P A A CGCGCCGAGGAGTGAGAGACCTAGGGY
106020 P G A ATGACGTGGCAGACGGTGACAGACCTAGGGY
106020 T A A GATCCCCTAGGTCTGTCACTACCCACAGCCACCATAGGCCCAAACCT
106020 T G A GATCCCCTAGGTCTGTCACCACCCACAGCCACCATAGGCCCAAACCT

FIGURE 129G



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FIGURE 129G

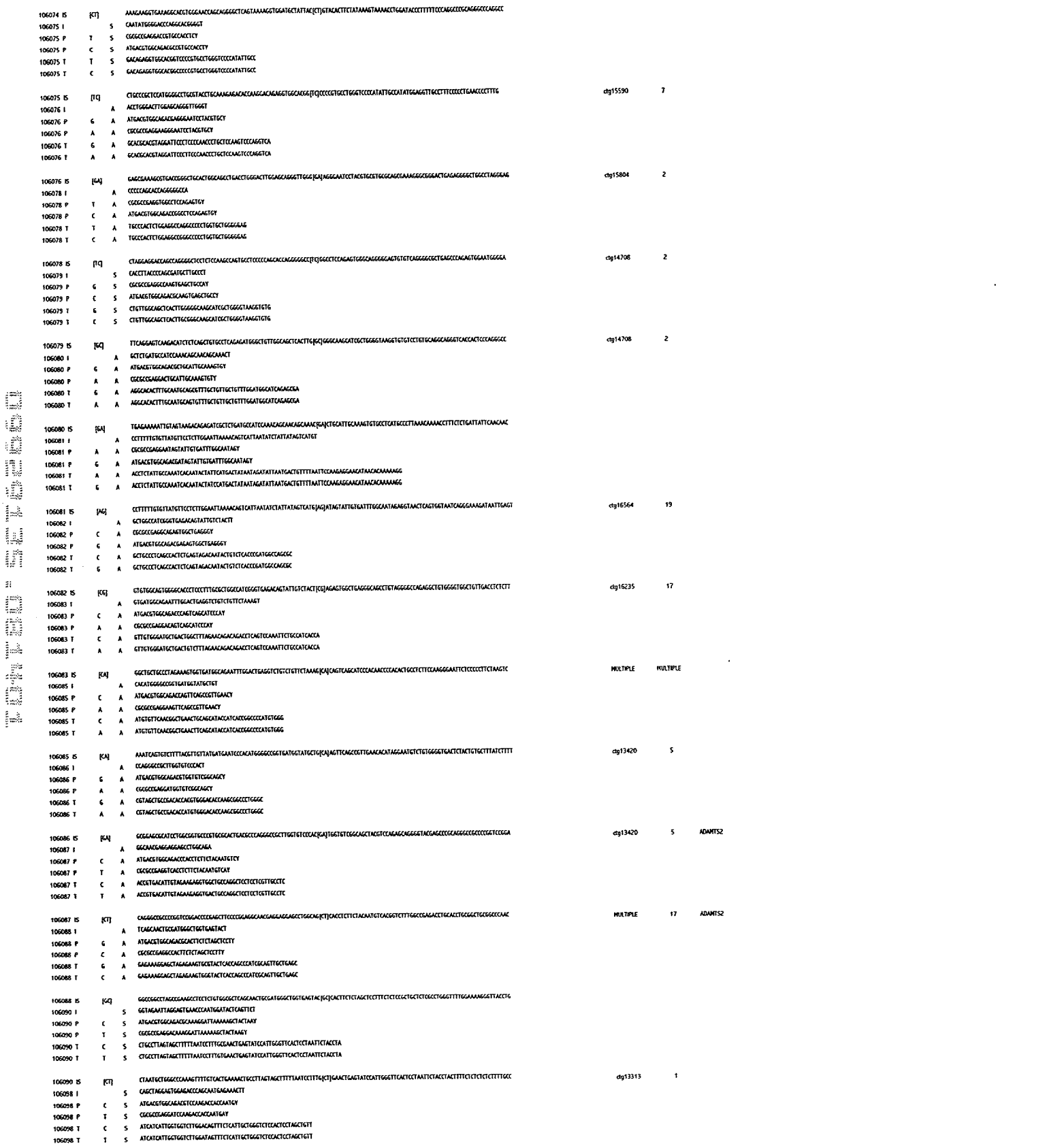
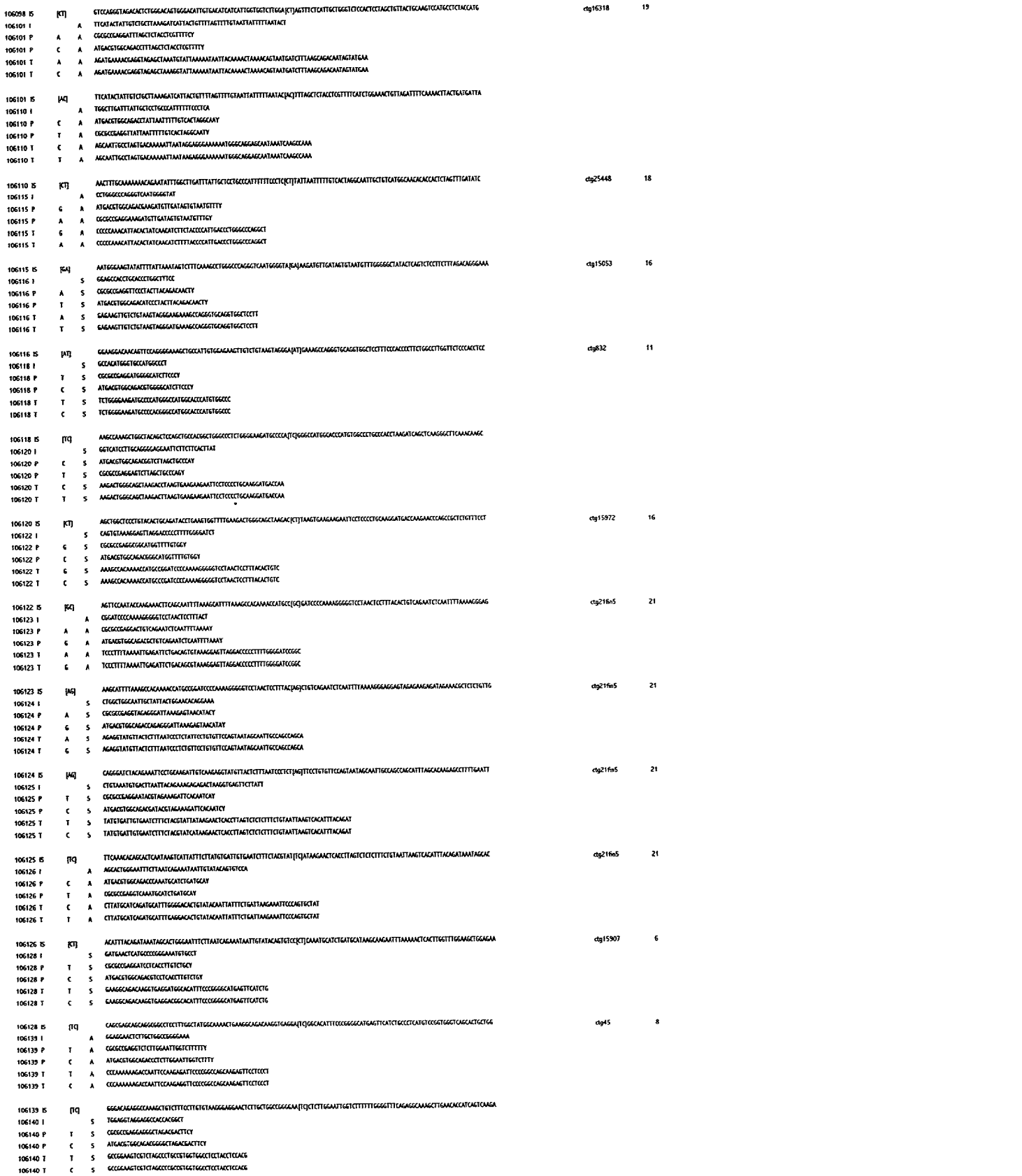

106074 IS [CT] AAAGAAGGTGAAAGGCAGTGGGAACAGCAGCAGGGGCTCAGTAAAAGGTGGATGCTATTAC[CT]GTACACTTCTATAAAGTAAAACCTGGATACCCTTTTTCCCAGGCCCGCAGGGCCCAGGCC
106075 I S CAATATGGGGACCCAGGCACGGGGT
106075 P T S CGGCCCGAGGACCGTGCCACCCTCY
106075 P C S ATGACGTGGCAGACGCCGTGCCACCTY
106075 T T S GACAGAGGTGGCACGGTCCCCGTGCCTGGGTCCCCATATTGCC
106075 T C S GACAGAGGTGGCACGGCCCCCGTGCCTGGGTCCCCATATTGCC
106075 IS [TC] CTGCCCGCTCCATGGGGCCTGGGTACCTGCAAAGAGACACAAGGACAGAGGTGGCACGG[TC]CCCCGTGCCTGGGTCCCCATATTGCCATATGGAGGTTGCCTTTCCCCCTGAACCCCTTTG ctg15590 7
106076 I A ACCTGGGACTTGGAGCAGGGTTGGGT
106076 P G A ATGACGTGGCAGACGAGGGAATCCTACGTGCY
106076 P A A CGCGCCGAGGAAGGGAATCCTACGTGCY
106076 T G A GCACGCACGTAGGATTCCCTCCCCAACCCTGCTCCAAGTCCCAGGTCA
106076 T A A GCACGCACGTAGGATTCCCTTCCCAACCCTGCTCCAAGTCCCAGGTCA
106076 IS [GA] GAGCGAAAGCGTGACCGGCGTGCACTGGCAGCCTGACCTGGGACTTGGAGCAGGGTTGGG[GA]AGGGAATCCTACGTGCGTGCGCAGCGAAAGGGCGGGACTGACAGAGGGGCTGGCCTAGGGAG ctg15804 2
106078 I A CCCCCAGCACCAGGGGGCCA
106078 P T A CGCGCCGAGGTGGCCTCCAGAGTGY
106078 P C A ATGACGTGGCAGACCGGCCTCCAGAGTGY
106078 T T A TGCCCACTCTGCAGGCCAGGCCCCCTGGTGCTGGGGGAG
106078 T C A TGCCCACTCTGGAGGCCGGGCCCCCTGGTGCTGGGGGAG
106078 IS [TC] CTAGGAGGACCAGCCAGGGGCTCCTCTCCAAGCCAGTGCCTCCCCCAGCACCAGGGGGCC[TC]GGCCTCCAGAGTGGGCAGGGGGAGTGTGTCAGGGGCGCTGAGCCCAGAGTGGAATGGGGA ctg14708 2
106079 I S CACCTTACCCCAGCGATGCTTGCCCT
106079 P G S CGCGCCGAGGCCAAGTGAGCTGCCAY
106079 P C S ATGACGTGGCAGACGCAAGTGAGCTGCCY
106079 T G S CTGTTGGCAGCTCACTTGGGGGCAAGCATCGCTGGGGTAAGGTGTG
106079 T C S CTGTTGGCAGCTCACTTGCGGGCAAGCATCGCTGGGGTAAGGTGTG
106079 IS [GC] TTCAGGAGTCAAGACATCTCTCAGCTGTGCCTCAGAGATGGGCTGTTGGCAGCTCACTTG[GC]GGGCAAGCATCGCTGGGGTAAGGTGTGTCCTGTGCAGGCAGGGTCACCACTCCCAGGCCC ctg14708 2
106080 I A GCTCTGATGCCATCCAAACAGCAACAGCAAACT
106080 P G A ATGACGTGGCAGACGCTGCATTGCAAAGTGY
106080 P A A CGCGCCGAGGACTGCATTGCAAAGTGTY
106080 T G A AGGCACACTTTGCAATGCAGCGTTTGCTGTTGCTGTTTGGATGGCATCAGAGCGA
106080 T A A AGGCACACTTTGCAATGCAGTGTTTGCTGTTGCTGTTTGGATGGCATCAGAGCGA
106080 IS [GA] TGAGAAAAATTGTAGTAAGAACAGACATCGCTCTGATGCCATCCAAACAGCAACAGCAAAC[GA]CTGCATTGCAAAGTGTGCCTCATGCCCTTAAACAAAACCTTTCTCTGATTATTCAACAAC
106081 I A CCTTTTTGTGTTATGTTCCTCTTGGAATTAAAACAGTCATTAATATCTATTATAGTCATGT
106081 P A A CGCGCCGAGGAATAGTATTGTGATTTGGCAATAGY
106081 P G A ATGACGTGGCAGACGATAGTATTGTGATTTGGCAATAGY
106081 T A A ACCTCTATTGCCAAATCACAATACTATTCATGACTATAATAGATATTAATGACTGTTTTAATTCCAAGAGGAACATAACACAAAAAGG
106081 T G A ACCTCTATTGCCAAATCACAATACTATCCATGACTATAATAGATATTAATGACTGTTTTAATTCCAAGAGGAACATAACACAAAAAGG
106081 IS [AG] CCTTTTTGTGTTATGTTCCTCTTGGAATTAAAACAGTCATTAATATCTATTATAGTCATG[AG]ATAGTATTGTGATTTGGCAATAGAGGTAACTCAGTGGTAATCAGGGAAAGATAATTGAGT ctg16564 19
106082 I A GCTGGCCATCGGGTGAGACAGTATTGTCTACTT
106082 P C A CGCGCCGAGGCAGAGTGGCTGAGGGY
106082 P G A ATGACGTGGCAGACGAGAGTGGCTGAGGGY
106082 T C A GCTGCCCTCAGCCACTCTGAGTAGACAATACTGTCTCACCCGATGGCCAGCGC
106082 T G A GCTGCCCTCAGCCACTCTCAGTAGACAATACTGTCTCACCCGATGGCCAGCGC
106082 IS [CG] GTGTGGCAGTGGGGCAACCTCCCTTTGCGCTGGCCATCGGGTGAGACAGTATTGTCTACT[CG]AGAGTGGCTGAGGGCAGCCTGTAGGGGCCAGAGGCTGTGGGGTGGCTGTTGACCTCTCTT ctg16235 17
106083 I A GTGATGGCAGAATTTGCACTGAGGTCTGTCTGTTCTAAAGT
106083 P C A ATGACGTGGCAGACCCAGTCAGCATCCCAY
106083 P A A CGCGCCGAGGACAGTCAGCATCCCAY
106083 T C A GTTGTGGGATGCTGACTGGCTTTAGAACAGACAGACCTCAGTCCAAATTCTGCCATCACCA
106083 T A A GTTGTGGGATGCTGACTGTCTTTAGAACAGACAGACCTCAGTCCAAATTCTGCCATCACCA
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106085 I A CACATGGGGCCGGTGATGGTATGCTGT
106085 P C A ATGACGTGGCAGACCAGTTCAGCCGTTGAACY
106085 P A A CGCGCCGAGGAAGTTCAGCCGTTGAACY
106085 T C A ATGTGTTCAACGGCTGAACTGCAGCATACCATCACCGGCCCCATGTGGG
106085 T A A ATGTGTTCAACGGCTGAACTTCAGCATACCATCACCGGCCCCATGTGGG
106085 IS [CA] AAATCAGTGTCTTTAGTTGTTATGATGAATCCCACATGGGGCCGGTGATGGTATGCTG[CA]AGTTCAGCGTTGAACACATAGGAATGTCTGTGGGGTGACTCTACTGTGCTTTATCTTTT ctg13420 5
106086 I A CCAGGGCCGCTTGGTGTCCCACT
106086 P G A ATGACGTGGCAGACGTGGTGTCGGCAGCY
106086 P A A CGCGCCGAGGATGGTGTCGGCAGCY
106086 T G A CGTAGCTGCCGACACCAGGTGGGACACCAAGCGGCCCTGGGC
106086 T A A CGTAGCTGCCGACACCATGTGGGACACCAAGCGGCCCTGGGC
106086 IS [GA] GCGGCAGCGCATCCTGGCGGTGCCCGTGCGCACTGACGCCCAGGGCCGCTTGGTGTCCCAC[GA]TGGTGTCGGCAGCTACGTCCAGAGCAGGGGTACGAGCCCGCAGGGCCGCCCCGGTCCGGA ctg13420 5 ADAMTS2
106087 I A GGCAACGAGAGGAGCCTGGCAGA
106087 P C A ATGACGTGGCAGACCCACCTCTCTCTACAATGTCY
106087 P T A CGCGCCGAGGTCACCTCTCTCTACAATGTCAY
106087 T C A ACCGTGACATTGTAGAAGAGGTGACTGCCAGGCTCCTCCTCGTTGCCTC
106087 T T A ACCGTGACATTGTAGAAGAGGTGACTGCCAGGCTCCTCCTCGTTGCCTC
106087 IS [CT] CAGGGCCGCCCCCGGTCCGGACCCCGAGCTTCCCCGGAGGCAACGAGGAGGAGGCCTGGCAG[CT]CACCCTCTTCTACAATGTCACGGTCTTTGGCCGAGACCTGCACCTGCGGCTGCGGCCCAAC MULTIPLE 17 ADAMTS2
106088 I A TCAGCAACTGCGATGGGCTGGTGAGTACT
106088 P G A ATGACGTGGCAGACGCACTTCTCTAGCTCCTY
106088 P C A CGCGCCGAGGCCACTTCTCTAGCTCCTTY
106088 T G A GAGAAAGGAGCTAGAGAAGTGCGTACTCACCAGCCCATCGCAGTTGCTGAGC
106088 T C A GAGAAAGGAGCTAGAGAAGTGGGTACTCACCAGCCCATCGCAGTTGCTGAGC
106088 IS [GC] GGCCGGCCTAGCCGAAGCCTCCTCTGTGCGGCTCAGCAACTGCGATGGGCTGGTGAGTAC[GC]CACTTCTCTAGCTCCTTTCTCTCCGCTGCTCTCGCCTGGGTTTTGGAAAAGGGTTACCTG
106090 I S GGTAGAATTAGGAGTGAACCCAATGGATACTCAGTTCT
106090 P C S ATGACGTGGCAGACGCAAGGATTAAAAAGCTACTAAY
106090 P T S CGCGCCGAGGACAAAGCATTAAAAAGCTACTAAGY
106090 T C S CTGCCTTAGTAGCTTTTTAATCCTTTGCGAACTGAGTATCCATTGGGTTCACTCCTAATTCTACCTA
106090 T T S CTGCCTTAGTAGCTTTTTAATCCTTTGTGAACTGAGTATCCATTGGGTTCACTCCTAATTCTACCTA
106090 IS [CT] CTAATGCTGGGCCCAAAGTTTTGTCACTGAAAACTGCCTTAGTAGCTTTTTAATCCTTTG[CT]GAACTGAGTATCCATTGGGTTCACTCCTAATTCTACCTACTTTTCTCTCTCTCTTTTGCC dtg13313 1
106098 I S CAGCTAGGAGTGGAGACCCAGCAATGAGAAACTT
106098 P C S ATGACGTGGCAGACGTCCAAGACCACCAATGY
106098 P T S CGCGCCGAGGATCCAAGACCACCAATGAY
106098 T C S ATCATCATTGGTGGTCTTGGACAGTTTCTCATTGCTGGGTCTCCACTCCTAGCTGTT
106098 T T S ATCATCATTGGTGGTCTTGGATAGTTTCTCATTGCTGGGTCTCCACTCCTAGCTGTT

FIGURE 129G


106098 IS [CT] GTCCAGGGTAGACACTCTGGGACAGTGGGACATTGTGACATCATCATTGGTGGTCTTGGA[CT]AGTTTCTCATTGCTGGGTCTCCACTCCTAGCTGTTACTGCAAGTCCATGCCTCTACCATG ctg16318 19
106101 I A TTCATACTATTGTCTGCTTAAAGATCATTACTGTTTTAGTTTTGTAATTATTTTTAATACT
106101 P A A CGGCCCAGGATTTAGCTCTACCTGGTTTTCY
106101 P C A ATGACGTGGCAGACCTTTAGCTCTACCTCGTTTTY
106101 T A A AGATGAAAACGAGGTAGAGCTAAATGTATTAAAAATAATTACAAAACTAAAACAGTAATGATCTTTAAGCAGACAATAGTATGAA
106101 T C A AGATGAAAACGAGGTAGAGCTAAAGGTATTAAAAATAATTACAAAACTAAAACAGTAATGATCTTTAAGCAGACAATAGTATGAA

106101 IS [AC] TTCATACTATTGTCTGCTTAAAGATCATTACTGTTTTAGTTTTGTAATTATTTTTAATAC[AC]TTTAGCTCTACCTCGTTTTCATCTGGAAACTGTTAGATTTTCAAAACTTACTGATGATTA
106110 I A TGGCTTGATTTATTGCTCCTGCCCATTTTTTCCCTCA
106110 P C A ATGACGTGGCAGACCTATTAATTTTTGTCACTAGGCAAY
106110 P T A CGCGCCGAGGTTATTAATTTTTGTCACTAGGCAATY
106110 T C A AGCAATTGCCTAGTGACAAAAATTAATAGGAGGGAAAAAATGGGCAGGAGCAATAAATCAAGCCAAA
106110 T T A AGCAATTGCCTAGTGACAAAAATTAATAAGAGGGAAAAAATGGGCAGGAGCAATAAATCAAGCCAAA

106110 IS [CT] AACTTTGCAAAAAAACAGAATATTTGGCTTGATTTATTGCTCCTGCCCATTTTTTCCCTC[CT]TATTAATTTTTTGTCACTAGGCAATTGCTGTCATGGCAACACACCACTCTAGTTTGATATC ctg25448 18
106115 I A CCTGGGCCCAGGGTCAATGGGGTAT
106115 P G A ATGACCTGGCAGACGAAGATGTTGATAGTGTAATGTTTY
106115 P A A CGCGCCGAGGAAAGATGTTGATAGTGTAATGTTTGY
106115 T G A CCCCCAAACATTACACTATCAACATCTTTACCCCATTGACCCTGGGCCCAGGCT
106115 T A A CCCCCAAACATTACACTATCAACATCTTTTACCCCATTGACCCTGGGCCCAGGCT

106115 IS [GA] AATGGGAAGTATATTTTATTAAATAGTCTTTCAAAGCCTGGGCCCAGGGTCAATGGGGTA[GA]AAGATGTTGATAGTGTAATGTTTGGGGGCTATACTCAGTCTCCTTCTTTAGACAGGGAAA ctg15053 16
106116 I S GGAGCCACCTGCACCCTGGCTYTCC
106116 P A S CGCGCCGAGGTTCCCTACTTACAGACAACTY
106116 P T S ATGACCTGGCAGACATCCCTACTTACAGACAACTY
106116 T A S GAGAAGTTGTCTGTAAGTAGGGAATGAAAGCCAGGGTGCAGGTGGCTCCTT
106116 T T S GAGAAGTTGTCTGTAAGTAGGGAATGAAAGCCAGGGTGCAGGTGGCTCCTT

106116 IS [AT] GGAAGGAGAACAGTTCCAGGGGAAAGCTGCCATTGTGGAGAAGTTGTCTGTAAGTAGGGA[AT]GAAAGCCAGGGTGCAGGTGGCTCCTTTCCCACCCCTTCTGGCCTTGGTTCTCCCACCTCC ctg832 11
106118 I S GCCACATGGGTGCCATGGCCCT
106118 P T S CGCGCCGAGGATGGGGCATCTTCCCY
106118 P C S ATGACGTGGCAGACGTGGGGCATCTTCCCY
106118 T T S TCTGGGGAAGATGCCCCATGGGCCATGGCACCCATGTGGCCC
106118 T C S TCTGGGGAAGATGCCCCACGGGCCATGGCACCCATGTGGCCC

106118 IS [TC] AAGCCAAAGCTGGCTACAGCTCCAGCTGCCACGGCTGGGCCCTCTGGGGAAGATGCCCCA[TC]GGGCCATGGCACCCATGTGGCCCTGCCCACCTAAGATCAGCTCAAGGCTTCAAACAAGC
106120 I S GGTCATCCTTGCAGGGGAGGAATTCTTCTTCACTTAT
106120 P C S ATGACGTGGCAGACGGTCTTAGCTGCCCAY
106120 P T S CGCGCCGAGGAGTCTTAGCTGCCCAGY
106120 T C S AAGACTGGGCAGCTAAGACCTAAGTGAAGAAGAATTCCTCCCCTGCAAGGATGACCAA
106120 T T S AAGACTGGGCAGCTAAGACTTAAGTGAAGAAGAATTCCTCCCCTGCAAGGATGACCAA

106120 IS [CT] AGCTGGCTCCCTGTACACTGCAGATACCTGAAGTGGTTTTGAAGACTGGGCAGCTAAGAC[CT]TAAGTGAAGAAGAATTCCTCCCCTGCAAGGATGACCAAGAACCCAGCCGCTCTCGTTCCT ctg15972 16
106122 I S CAGTGTAAAGGAGTTAGGACCCCTTTTGGGGATCT
106122 P G S CGCGCCGAGGCGGCATGGTTTTGTGGY
106122 P C S ATGACGTGGCAGACGGGCATGGTTTTGTGGY
106122 T G S AAAGCCACAAAACCATGCCCGGATCCCCAAAAGGGGGTCCTAACTCCTTTACACTGTC
106122 T C S AAAGCCACAAAACCATGCCCGATCCCCAAAAGGGGGTCCTAACTCCTTTACACTGTC

106122 IS [GC] AGTTCCAATACCAAGAAACTTCAGCAATTTTAAAGCATTTTAAAGCCACAAAACCATGCC[GC]GATCCCCAAAAGGGGGTCCTAACTCCTTTACACTGTCAGAATCTCAATTTTAAAAGGGAG ctg216n5 21
106123 I A CGCATCCCCAAAAGGGGGTCCTAACTCCTTTACT
106123 P A A CGCGCCGAGGCACTGTCAGAATCTCAATTTTAAAAY
106123 P G A ATGACGTGGCAGACGCTGTCAGAATCTCAATTTTAAAY
106123 T A A TCCCTTTTAAAATTGAGATTCTGACAGTGTAAAGGAGTTAGGACCCCCTTTTGGGGATCCGGC
106123 T G A TCCCTTTTAAAATTGAGATTCTGACAGCGTAAAGGAGTTAGGACCCCTTTTGGGGATCCGGC

106123 IS [AG] AAGCATTTTAAAGCCACAAAACCATGCCGGATCCCCAAAAGGGGGTCCTAACTCCTTTAC[AG]CTGTCAGAATCTCAATTTTAAAAGGGAGGAGTAGAGAAGAGATAGAAACGCTCTCTGTTG ctg21fin5 21
106124 I S CTGGCTGGCAATTGCTATTACTGGAACACAGGAAA
106124 P A S CGCGCCGAGGTAGAGGGATTAAAGAGTAACATACT
106124 P G S ATGACGTGGCAGACCAGAGGGATTAAAGAGTAACATAT
106124 T A S AGAGGTATGTTACTCTTAATCCCTCTATTCCTGTGTTCCAGTAATAGCAATTGCCAGCCAGCA
106124 T G S AGAGGTATGTTACTCTTAATCCCTCTGTTCCTGTGTTCCAGTAATAGCAATTGCCAGCCAGCA

106124 IS [AG] CAGGGATCTACAGAAATTCCTGCAAGATTGTCAAGAGGTATGTTACTCTTTAATCCCTCT[AG]TTCCTGTGTTCCAGTAATAGCAATTGCCAGCCAGCATTTAGCACAAGAGCCTTTGAATT ctg21fin5 21
106125 I S CTGTAAATGTGACTTAATTACAGAAAGACAGACTAAGGTGAGTTCTTATT
106125 P T S CGCGCCGAGGAATACGTAGAAAGATTCACAATCAY
106125 P C S ATGACGTGGCAGACGATACGTAGAAAGATTCACAATCY
106125 T T S TATGTGATTGTGAATCTTTCTACGTATTATAAGAACTCACCTTAGTCTCTCTTTCTGTAATTAAGTCACATTTACAGAT
106125 T C S TATGTGATTGTGAATCTTTCTACGTATCATAAGAACTCACCTTAGTCTCTCTTTCTGTAATTAAGTCACATTTACAGAT

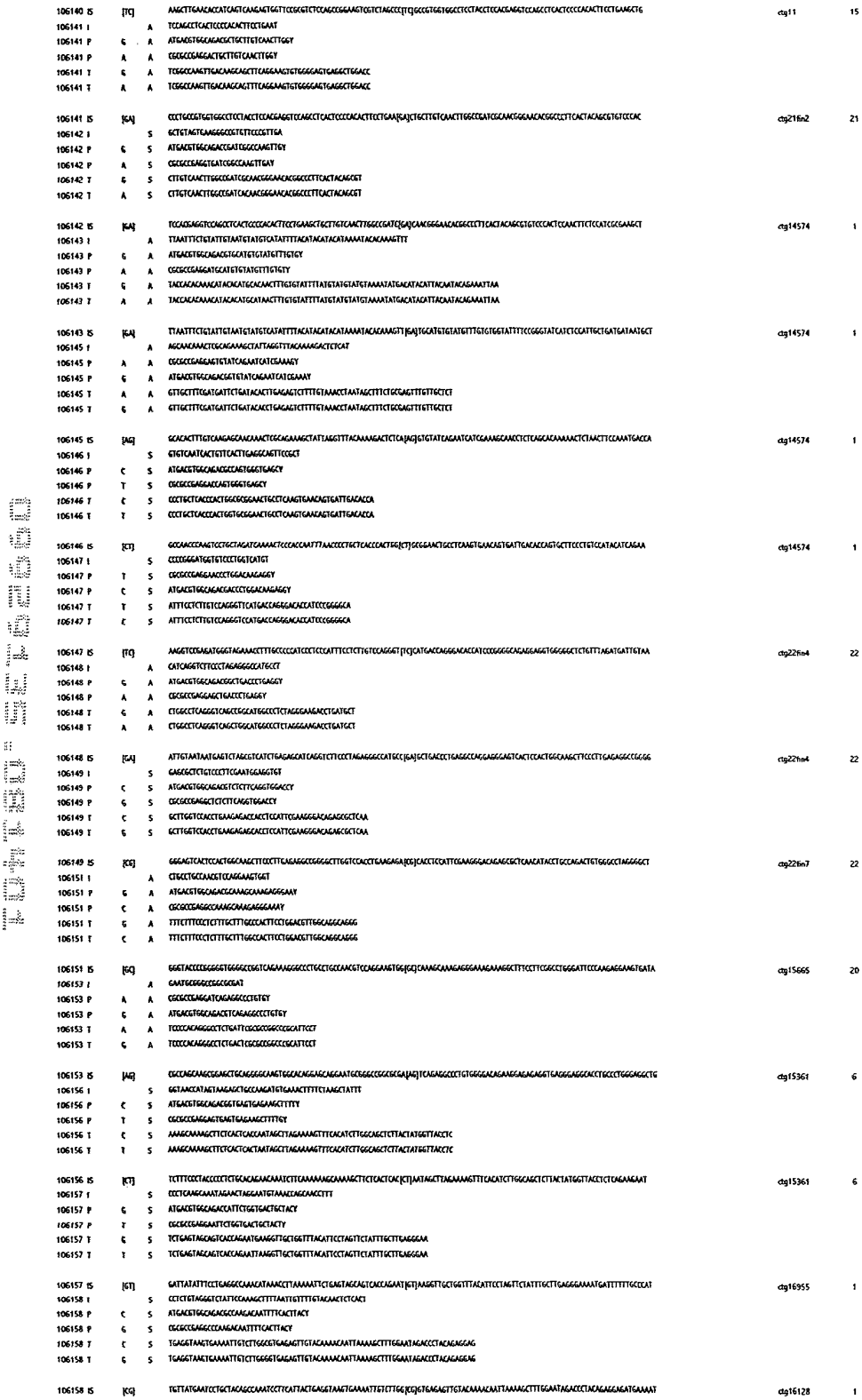
106125 IS [TC] TTCAAACACAGCACTCAATAAGTCATTATTTCTTATGTGATTGTGAATCTTTCTACGTAT[TC]ATAAGAACTCACCTTAGTCTCTCTTTCTGTAATTAAGTCACATTTACAGATAAATAGCAC ctg216n5 21
106126 I A AGCACTGGGAATTTCTAATCAGAAATAATTGTATACAGTGTCCA
106126 P C A ATGACGTGGCAGACCCAAATGCATCTGATGCAY
106126 P T A CGCGCCGAGGTCAAATGCATCTGATGCAY
106126 T C A CTTATGCATCAGATGCATTTGGGGACACTGTATACAATTATTTCTGATTAAGAAATTCCCAGTGCTAT
106126 T T A CTTATGCATCAGATGCATTTGAGGACACTGTATACAATTATTTCTGATTAAGAAATTCCCAGTGCTAT

106126 IS [CT] ACATTTACAGATAAATAGCACTGGGAATTTCTTAATCAGAAATAATTGTATACAGTGTCC[CT]CAAATGCATCTGATGCATAAGGAAGAATTTAAAAACTCACTTGGTTTGGAAGCTGGAGAA ctg15907 6
106128 I S GATGAACTCATGCCCCGGGAAATGTGCCT
106128 P T S CGCGCCGAGGATCCTCACCTTGTCTGCY
106128 P C S ATGACGTGGCAGACGTCCTCACCTTGTCTGY
106128 T T S GAAGGCAGACAAGGTGAGGATGGCACATTTCCCGGGGCATGAGTTCATCTG
106128 T C S GAAGGCAGACAAGGTGAGGACGGCACATTTCCCGGGGCATGAGTTCATCTG

106128 IS [TC] CAGCGAGGAGCAGGGGGCCTCCTTTGGCTATGGCAAAACTGAAGGCAGACAAGGTGAGGA[TC]GGCACATTTCCCGGGGCATGAGTTCATCTGCCCTCATGTCCGGTGGGTCAGCACTGCTGG ctg45 8
106139 I A GGAGGAACTCTTGCTGGCCGGGGAAA
106139 P T A CGCGCCGAGGTCTCTTGGAATTGGTCTTTTTY
106139 P C A ATGACGTGGCAGACCCTCTTGGAATTGGTCTTTY
106139 T T A CCCAAAAAAGACCAATTCCAAGAGATTCCCGGCCAGCAAGAGTTCCTCCCT
106139 T C A CCCAAAAAAGACCAATTCCAAGAGGTTCCCGGCCAGCAAGAGTTCCTCCCT

106139 IS [TC] GGGACAGAGGCCAAAGCTGTCTTTCCTTGTGTAAGGGAGGAACTCTTGCTGGCCGGGGAA[TC]CTCTTGGAATTGGTCTTTTTGGGGTTTCAGAGGCAAAGCTTGAACACCATCAGTCAAGA
106140 I S TGGAGGTAGGAGCCACCACGGCT
106140 P T S CGCGCCGAGGAGGGCTAGACGACTTCY
106140 P C S ATGACGTGGCAGACGGGGCTAGACGACTTCY
106140 T T S GCCGGAAGTCGTCTAGCCCTGCCGTGGTGGCCTCCTACCTCCACG
106140 T C S GCCGCAAGTCGTCTAGCCCTGCCGTGGTGGCCTCCTACCTCCACG

FIGURE 129G


106140 IS [TC] AAGCTTGAACACCATCAGTCAAGAGTGGTTCCGGGTCTCCAGCCGGAAGTCGTCTAGCCC[TG]GCCGTGGTGGCCTCCTACCTCCACGAGGTCCAGCCTCACTCCCCACACTTCCTGAAGCTG ctg11 15
106141 I A TCCAGCCTCACTCCCCACACTTCCTGAAT
106141 P G A ATGAGGTGGCAGACGCTGCTTGTCAACTTGGY
106141 P A A CGGCCCGAGGACTGCTTGTCAACTTGGY
106141 T G A TCGGCCAAGTTGACAAGCAGCTTCAGGAAGTGTGGGGAGTGAGGCTGGACC
106141 T A A TCGGCCAAGTTGACAAGCAGTTTCAGGAAGTGTGGGGAGTGAGGCTGGACC
106141 IS [GA] CCCTGCCGTGGTGGCCTCCTACCTCCACGAGGTCCAGCCTCACTCCCCACACTTCCTGAA[GA]CTGCTTGTCAACTTGGCCGATCGCAACGGGAACACGGCCCTTCACTACAGCGTGTCCAC ctg216n2 21
106142 I S GCTGTAGTGAAGGGCCGTGTTCCCCGTTGA
106142 P G S ATGACGTGGCAGACCGATGGCCAAGTTGY
106142 P A S CGCGCCGAGGTGATCGGCCAAGTTGAY
106142 T G S CTTGTCAACTTGGCCGATCGCAACGGGAACACGGCCCTTCACTACAGCGT
106142 T A S CTTGTCAACTTGGCCGATCACAACGGGAACACGGCCCTTCACTACAGCGT
106142 IS [GA] TCCACGAGGTCCAGCCTCACTCCCCACACTTCCTGAAGCTGCTTGTCAACTTGGCCGATC[GA]CAACGGGAACACGGCCCTTCACTACAGCGTGTCCCACTCCAACTTCTCCATCGCGAAGCT ctg14574 1
106143 I A TTAATTTCTGTATTGTAATGTATGTCATATTTTACATACATACATAAAATACACAAAGTTT
106143 P G A ATGACGTGGCAGACGTGCATGTGTATGTTTGTGY
106143 P A A CGCGCCGAGGATGCATGTGTATGTTTGTGTY
106143 T G A TACCACACAAACATACACATGCACAACTTTGTGTATTTTATGTATGTATGTAAAATATGACATACATTACAATACAGAAATTAA
106143 T A A TACCACACAAACATACACATGCATAACTTTGTGTATTTTATGTATGTATGTAAAATATGACATACATTACAATACAGAAATTAA
106143 IS [GA] TTAATTTCTGTATTGTAATGTATGTCATATTTTACATACATACATAAAATACACAAAGTT[GA]TGCATGTGTATGTTTGTGTGGTATTTCCGGGTATCATCTCCATTGCTGATGATAATGCT ctg14574 1
106145 I A AGCAACAAACTGCAGAAAGCTATTAGGTTTACAAAAGACTCTCAT
106145 P A A CGCGCCGAGGAGTGTATCAGAATCATCGAAAGY
106145 P G A ATGACGTGGCAGACGGTGTATCAGAATCATCGAAAT
106145 T A A GTTGCTTTCGATGATTCTGATACACTTGAGAGTCTTTTGTAAACCTAATAGCTTTCTGCGAGTTTGTTGCTCT
106145 T G A GTTGCTTTCGATGATTCTGATACACCTGAGAGTCTTTTGTAAACCTAATAGCTTTCTGCGAGTTTGTTGCTCT
106145 IS [AG] GCACACTTTGTCAAGAGCAACAAACTCGCAGAAAGCTATTAGGTTTACAAAAGACTCTCA[AG]GTGTATCAGAATCATCGAAAGCAACCTCTCAGCACAAAAACTCTAACTTCCAAATGACCA ctg14574 1
106146 I S GTGTCAATCACTGTTCACTTGAGGCAGTTCCGCT
106146 P C S ATGACGTGGCAGACGCCAGTGGGTGAGCY
106146 P T S CGCGCCGAGGAACCAGTGGGTGAGCY
106146 T C S CCCTGCTCACCCACTGGCGCGGAACTGCCTCAAGTGAACAGTGATTGACACCA
106146 T T S CCCTGCTCACCCACTGGTGCGGAACTGCCTCAAGTGAACAGTGATTGACACCA
106146 IS [CT] GCCAACCCAAGTCCTGCTAGATGAAAACTCCCACCAATT?AACCCCTGCTCACCCACTGG[CT]GCGGAACTGCCTCAAGTGAACAGTGATTGACACCAGTGCTTCCCTGTCCATACATCAGAA ctg14574 1
106147 I S CCCCGGGATGGTGTCCCTGGTCATGT
106147 P T S CGCGCCGAGGAACCCTGGACAAGAGGY
106147 P C S ATGACGTGGCAGACGACCCTGGACAAGAGGY
106147 T T S ATTTCGTCTTGTCCAGGGTTCATGACCAGGCACACCATCCCGGGGCA
106147 T C S ATTTCCTCTTGTCCAGGGTCCATGACCAGGCACACCATCCCGGGGCA
106147 IS [TC] AAGGTCCGAGATGGGTAGAAACCTTTGCCCCATCCCTCCCATTTCCTCTGTCCAGGGT[TC]CATGACCAGGGACACCATCCCGGGGCAGAGGAGGTGGGGGCTCTGTTTAGATGATTGTAA ctg22hn4 22
106148 I A CATCAGGTCTTCCCTAGAGGGCCATGCCT
106148 P G A ATGACGTGGCAGACGGCTGACCCTGAGGY
106148 P A A CGCGCCGAGGAGCTGACCCTGAGGY
106148 T G A CTGGCCTCAGGGTCAGCCGCATGGCCCTCTAGGGAAGACCTGATGCT
106148 T A A CTGGCCTCAGGGTCAGCTGGCATGGCCCTCTAGGGAAGACCTGATGCT
106148 IS [GA] ATTGTAATAATGAGTCTAGCGTCATCTGAGAGCATCAGGTCTTCCCTAGAGGGCCATGCC[GA]GCTGACCCTGAGGCCAGGAGGCGAGTCACTCCACTGGCAAGCTTCCCTTGAGAGCCGGGG ctg22hn4 22
106149 I S GAGGGCTCTGTCCCTTCCAATGGAGGTGT
106149 P C S ATGACGTGGCAGACGTCTCTTCAGGTGGACCY
106149 P G S CGCGCCGAGGCTCTCTTCAGGTGGACCY
106149 T C S GCTTGGTCCACCTGAAGACACCACCTCCATTCGAAGGGACAGAGGGCTCAA
106149 T G S GCTTGGTCCACCTGAAGAGAGCACCTCCATTCGAAGGGACAGAGCGCTCAA
106149 IS [CG] GGGAGTCACTCCACTGGCAAGCTTCCCTTGAGAGGCGGGGCTTGGTCCACCTGAAGAGA[CG]CACCTCCATTCGAAGGGACAGAGCGCTCAACATACCTGCCAGACTGTGGGCCTAGGGGCT ctg22hn7 22
106151 I A CTGCCTGCCAACGTCCAGGAAGTGGT
106151 P G A ATGACGTGGCAGACGCAAAGCAAAGAGGGAAY
106151 P C A CGCGCCGAGGCCAAAGCAAAGAGGGAAAY
106151 T G A TTTCTTTCCCTCTTTGCTTGGCCACTTCCTGGACGTTGGCAGGCAGGG
106151 T C A TTTCTTTCCCTCTTTGCTTGGCCACTTCCTGGACGTTGGCAGGCAGGG
106151 IS [GC] GGGTACCCCGGGGGTGGGGCCGGTCAGAAAGGGCCCTGCCTGCCAACGTCCAGGAAGTGG[GC]CAAAGCAAAGAGGGAAAGAAAGGCTTTCCTTCGGCCTGGGATTCCCAAGAGGAAGTGATA ctg15665 20
106153 I A GAATGCGGGCCGGCGGAT
106153 P A A CGCGCCGAGGATCAGAGGCCCTGTGY
106153 P G A ATGACGTGGCAGACCTCAGAGGCCCTGTGY
106153 T A A TCCCCACAGGGCCTCTGATTCGCGCCGGCCCGCATTCCT
106153 T G A TCCCCACAGGGCCTCTGACTCGCGCCGGCCCGCATTCCT
106153 IS [AG] CGCCAGCAAGCGGAGCTGCAGGGGCAAGTGGCACAGGAGCAGGAATGCGGGCCGGCGCGA[AG]TCAGAGCCCTGTGGGGACAGAAGGAGAGAGAGTGAGGGAGGCACCTGCCCTGGGAGGCTG ctg15361 6
106156 I S GGTAACCATAGTAAGAGCTGCCAAGATGTGAAACTTTTCTAAGCTATTT
106156 P C S ATGACGTGGCAGACGGTGAGTGAGAAGCTTTTY
106156 P T S CGCGCCGAGGAGTGAGTGAGAAGCTTTTGY
106156 T C S AAAGCAAAGCTTCTCACTCACCAATAGCTAGAAAAGTTTCACATCTGGCAGCTCTTACTATGGTTACCTC
106156 T T S AAAGCAAAGCTTCTCACTCACTAATAGCTAGAAAAGTTTCACATCTGGCAGCTCTTACTATGGTTACCTC
106156 IS [CT] TCTTTCCCTACCCCCTCTGCACAGAACAAATCTTCAAAAAGCAAAAGCTTCTCACTCAC[CT]AATAGCTTAGAAAAGTTTCACATCTGGCAGCTCTTACTATGGTTACCTCTAGAAGAAT ctg15361 6
106157 I S CCCTCAAGCAAATAGAACTAGGAATGTAAACCAGCAACCTTT
106157 P G S ATGACGTGGCAGACCATTCTGGTGACTGCTACY
106157 P T S CGCGCCGAGGAATTCTGGTGACTGCTACTY
106157 T G S TCTGAGTAGCAGTCACCAGAATGAAGGTTGCTGGTTTACATTCCTAGTTCTATTTGCTTGAGGAA
106157 T T S TCTGAGTAGCAGTCACCAGAATTAAGGTTGCTGGTTTACATTCCTAGTTCTATTTGCTTGAGGAA
106157 IS [GT] GATTATATTTCCTGAGGCCAAACATAAACCTTAAAAATTCTGAGTAGCAGTCACCAGAAT[GT]AAGGTTGCTGGTTTACATTCCTAGTTCTATTTGCTTGAGGGAAAATGATTTTTTGCCCAT ctg16955 1
106158 I S CCTCTGTAGGGTCTATTCCAAAGCTTTTAATTGTTTTGTACAACTCTCACT
106158 P C S ATGACGTGGCAGACGCCAAGACAATTTTCACTTACY
106158 P G S CGCGCCGAGGCCCAAGACAATTTTCACTTACY
106158 T C S TCAGGTAAGTGAAAATTGTCTTGGCGTGAGAGTTGTACAAAACAATTAAAAGCTTTGGAATAGACCCTACAGAGGAG
106158 T G S TGAGGTAAGTGAAAATTGTCTTGGGGTGAGAGTTGTACAAAACAATTAAAAGCTTTGGAATAGACCCTACAGAGGAG
106158 IS [CG] TGTTATGAATCCTGCTACAGCCAAATCCTTCATTACTGAGGTAAGTGAAAATTGTCTTGG[CG]CTGAGAGTTGTACAAAACAATTAAAAGCTTTGGAATAGACCCTACAGAGGAGATGAAAAT ctg16128 1
106159 I S ACTGCAGACTTGCAAACAAGATAGACAAAAATTTTCTTCACTCTGCT
106159 P C S ATGACGTGGCAGACGAAATACTGACTATAAAAACACCAGY
106159 P T S CGCGCCGAGGAAAATACTGACTATAAAAACACCAGY
106159 T C S TTGTCTGGTGTTTTATAGTCAGTATTTCGCAGAGTGAAGAAAATTTTCTCTATCTTGTTTGCAAGTCTGCAGTGT
106159 T T S TTGTCTGGTGTTTTATAGTCAGTATTTTGCAGAGTGAAGAAAATTTTCTCTATCTTGTTTGCAAGTCTGCAGTGT

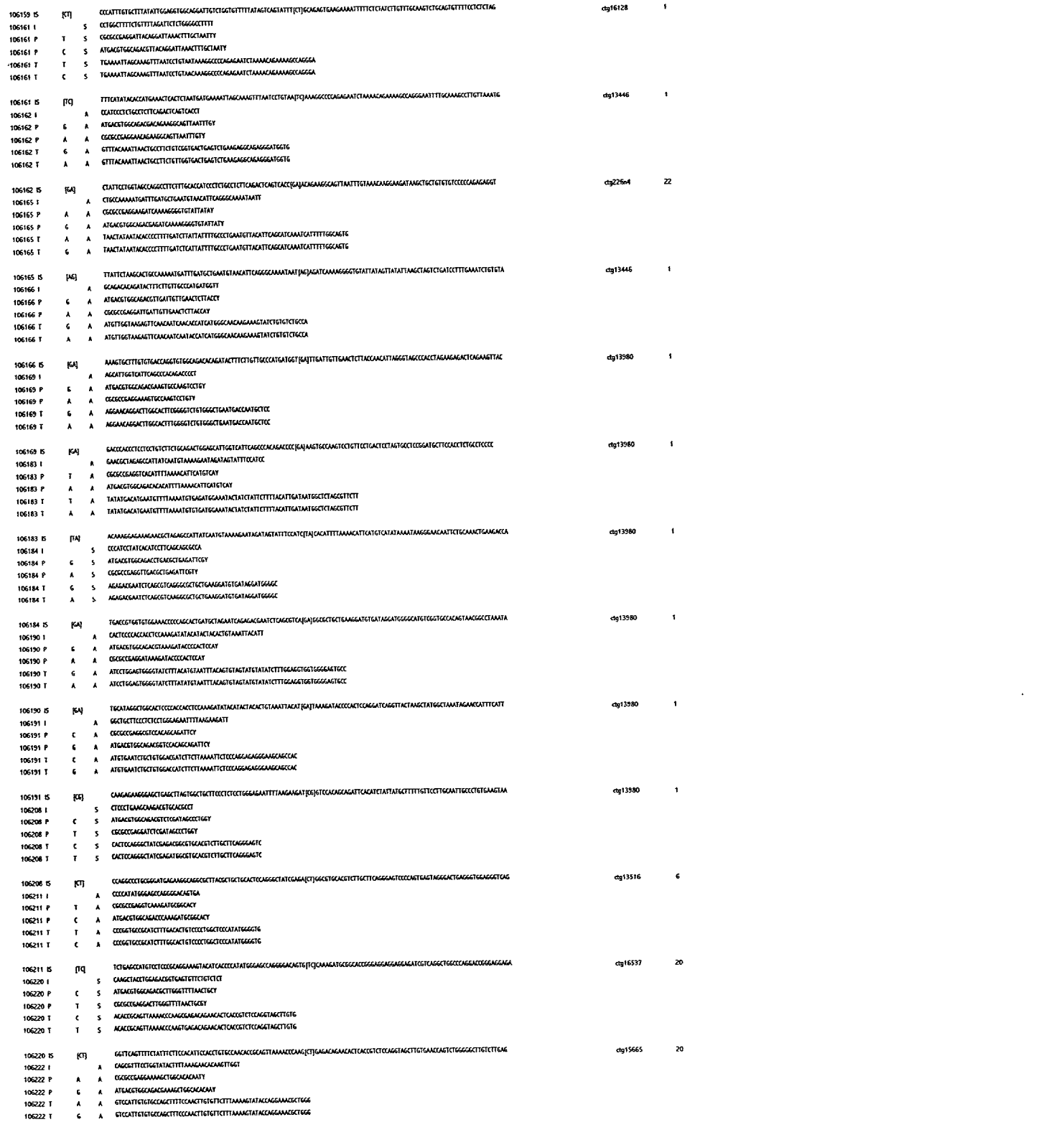


FIGURE 129G

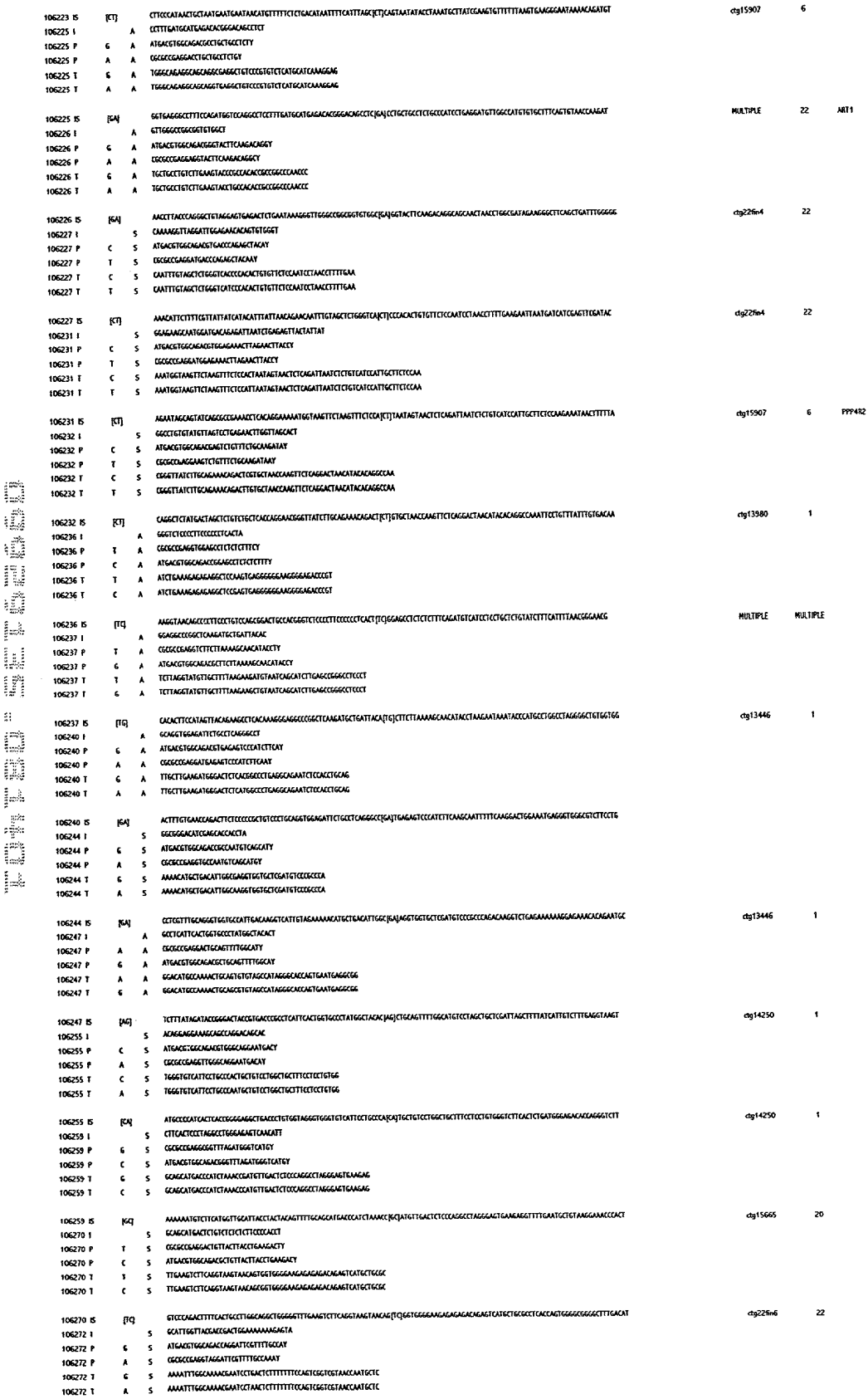

106223 IS [CT] CTTCCCATAACTGCTAATGAATGAATAACATGTTTTTCTCTGACATAATTTTCATTTAGC[CT]CAGTAATATACCTAAATGCTTATCCAAGTGTTTTTTAAGTGAAGGCAATAAAACAGATGT ctg15907 6
106225 I A CCTTTGATGCATGAGACACGGGCAGCCTCT
106225 P G A ATGACGTGGCAGACGCCTGCTGCCTCTY
106225 P A A CGCGCCGAGGACCTGCTGCCTCTGY
106225 T G A TGGGCAGAGGCAGCAGGCGAGGCTGTCCCGTGTCTCATGCATCAAAGGAG
106225 T A A TGGGCAGAGGCAGCAGGTGAGGCTGTCCCGTGTCTCATGCATCAAAGGAG
106225 IS [GA] GGTGAGGGCCTTTCCAGATGGTCCAGGCCTCCTTTGATGCATGAGACACGGGACAGCCTC[GA]CCTGCTGCCTCTGCCCATCCTGAGGATGTTGGCCATGTGTGCTTTCAGTGTAACCAAGAT MULTIPLE 22 ART1
106226 I A GTTGGGCCGGCGGTGTGGCT
106226 P G A ATGACGTGGCAGACGGGTACTTCAAGACAGGY
106226 P A A CGCGCCGAGGAGGTACTTCAAGACAGGCY
106226 T G A TGCTGCCTGTCTTGAAGTACCGCCACACGCCGGCCCAACCC
106226 T A A TGCTGCCTGTCTTGAAGTACCTGCCACACCGCCGGCCCAACCC
106226 IS [GA] AACCTTACCCAGGGCTGTAGGAGTGAGACTCTGAATAAAGGGTTGGGCCGGCGGTGTGGC[GA]GGTACTTCAAGACAGGCAGCAACTAACCTGGCGATAGAAGGGCTTCAGCTGATTTGGGGG ctg22fm4 22
106227 I S CAAAAGGTTAGGATTGGAGAACACAGTGTGGGT
106227 P C S ATGACGTGGCAGACGTGACCCAGAGCTACAY
106227 P T S CGCGCCGAGGATGACCCAGAGCTACAAY
106227 T C S CAATTTGTAGCTCTGGGTCACCCCACACTGTGTTCTCCAATCCTAACCTTTTGAA
106227 T T S CAATTTGTAGCTCTGGGTCATCCCACACTGTGTTCTCCAATCCTAACCTTTTGAA
106227 IS [CT] AAACATTCTTTTCGTTATTATCATACATTTATTAACAGAACAATTTGTAGCTCTGGGTCA[CT]CCCACACTGTGTTCTCCAATCCTAACCTTTTGAAGAATTAATGATCATCGAGTTCGATAC ctg22fm4 22
106231 I S GGAGAAGCAATGGATGACAGAGATTAATCTGAGAGTTACTATTAT
106231 P C S ATGACGTGGCAGACGTGACCAGAACTTAGAACTTACCY
106231 P T S CGCGCCGAGGAGTGGAGAAACTTAGAACTTACCY
106231 I C S AAATGGTAAGTTCTAAGTTTCTCCACTAATAGTAACTCTCAGATTAATCTCTGTCATCCATTGCTTCTCCAA
106231 T T S AAATGGTAAGTTCTAAGTTTCTCCATTAATAGTAACTCTCAGATTAATCTCTGTCATCCATTGCTTCTCCAA
106231 IS [CT] AGAATAGCAGTATCAGGGCGCGAAACCTCACAGCAAAAATGGTAAGTTCTAAGTTTCTCCA[CT]TAATAGTAACTCTCAGATTAATCTCTGTCATCCATTGCTTCTCCAAGAAATAACTTTTTA ctg15907 6 PPP4R2
106232 I S GGCCTGTGTATGTTAGTCCTGAGAACTTGGTTAGCACT
106232 P C S ATGACGTGGCAGACGAGTCTGTTTCTGCAAGATAY
106232 P T S CGCGCCGAGGAAGTCTGTTTCTGCAAGATAAY
106232 T C S CGGGTTATCTTGCAGAAACAGACTGTGCTAACCAAGTTCTCAGGACTAACATACACAGGCCAA
106232 T T S CGGGTTATCTTGCAGAAACAGACTTGTGCTAACCAAGTTCTCAGGACTAACATACACAGGCCAA
106232 IS [CT] CAGGCTCTATGACTAGCTCTGTCTGCTCACCAGGAACGGGTTATCTTGCAGAAACAGACT[CT]GTGCTAACCAAGTTCTCAGGACTAACATACACAGGCCAAATTCCTGTTTATTTGTGACAA ctg13980 1
106236 I A GGGTCTCCCCTTCCCCCCTCACTA
106236 P T A CGCGCCGAGGTGGAGCCTCTCTCTTTCY
106236 P C A ATGACGTGGCAGACCGGAGCCTCTCTCTTTY
106236 T T A ATCTGAAAGAGACAGGCTCCAGTGAGGGGGGAAGGGGAGACCCGT
106236 T C A ATCTGAAAGAGACAGGCTCCGAGTGAGGGGGGAAGGGGAGACCCGT
106236 IS [TC] AAGGTAACAGCCCCTTCCCTGTCCAGCGGACTGCCACGGGTCTCCCCTTCCCCCCTCACT[TC]GGAGGCTCTCTCTTTCAGATGTCATCCTCCTGCTCTGTATCTTTCATTTTAACGGGAACG MULTIPLE MULTIPLE
106237 I A GGAGGCCCGGCTCAAGATGCTGATTACAC
106237 P T A CGCGCCGAGGTCTTCTTAAAAGCAACATACCTY
106237 P G A ATGACGTGGCAGACGCTTCTTAAAAGCAACATACCY
106237 T T A TCTTAGGTATGTTGCTTTTAAGAAGATGTAATCAGCATCTGAGCCGGGCCTCCCT
106237 T G A TCTTAGGTATGTTGCTTTTAAGAAGCTGTAATCAGCATCTGAGCCGGGCCTCCCT
106237 IS [TG] CACACTTCCATAGTTACAGAAGCCTCACAAAGGGAGGCCCGGCTCAAGATGCTGATTACA[TG]CTTCTTAAAAGCAACATACCTAAGAATAAATACCCATGCCTGGCCTAGGGGCTGTGGTGG ctg13446 1
106240 I A GCAGGTGGAGATTCTGCCTCAGGGCCT
106240 P G A ATGACGTGGCAGACGTGAGAGTCCCATCTTCAY
106240 P A A CGCGCCGAGGATGAGAGTCCCATCTTCAAT
106240 T G A TTGCTTGAAGATGGGACTCTCATGGCCCTGAGGCAGAATCTCCACCTGCAG
106240 T A A TTGCTTGAAGATGGGACTCTCATGGCCCTGAGGCAGAATCTCCACCTGCAG
106240 IS [GA] ACTTTGTGAACCAGACTTCTCCCCCCGCTGTCCCTGCAGGTGGAGATTCTGCCTCAGGGCC[GA]TGAGAGTCCCATCTTCAAGCAATTTTTCAAGGACTGGAAATGAGGGTGGGCGTCTTCCTG
106244 I S GGCGGGACATCGAGCACCACCTA
106244 P G S ATGACGTGGCAGACGGCCAATGTCAGCATY
106244 P A S CGCGCCGAGGTGCCAATGTCAGCATGY
106244 T G S AAAACATGCTGACATTGGCGAGGTGGTGCTCGATGTCCCGCCCA
106244 T A S AAAACATGCTGACATTGGCAAGGTGGTGCTCGATGTCCCGCCCA
106244 IS [GA] CCTCGTTTGCAGGGTGGTGCCATTGACAAGGTCATTGTAGAAAAACATGCTGACATTGGC[GA]AGGTGGTGCTCGATGTCCCGCCCAGACAAGGTCTGAGAAAAAAGGAGAAACACAGAATGC ctg13446 1
106247 I A GCCTCATTCACTGGTGCCCTATGGCTACACT
106247 P A A CGCGCCGAGGACTGCAGTTTTGGCATY
106247 P G A ATGACGTGGCAGACGCTGCAGTTTTGGCAY
106247 T A A GCACATGCCAAAACTGCAGTGTGTAGCCATAGGGCACCAGTGAATGAGGCGG
106247 T G A GCACATGCCAAAACTGCAGCGTGTAGCCATAGGGCACCAGTGAATGAGGCGG
106247 IS [AG] TCTTTATAGATACCGGGACTACCGTGACCCGCCTCATTCACTGGTGCCCTATGGCTACAC[AG]CTGCAGTTTTGGCATGTCCTAGCTGCTCGATTAGCTTTTATCATTGTCTTTGAGGTAAGT ctg14250 1
106255 I S ACAGGAGGAAAGCAGCCAGGACAGCAC
106255 P C S ATGACGTGGCAGACGTGGGCAGGAATGACY
106255 P A S CGCGCCGAGGTTGGGCAGGAATGACAY
106255 T C S TGGGTGTCATTCCTGCCCACTGCTGTCCTGGCTGCTTTCCTCCTGTGG
106255 T A S TGGGTGTCATTCCTGCCCAATGCTGTCCTGGCTGCTTTCCTCCTGTGG
106255 IS [CA] ATGCCCCATCACTCACCGCGGAGGCTGACCCTGTGGTAGGGTGGGTGTCATTCCTGCCCA[CA]TGCTGTCCTGGCTGCTTTCCTCCTGTGGGTCTTCACTCTGATGGGAGACACCAGGGTCTT ctg14250 1
106259 I S CTTCACTCCCTAGGCCTGGGAGAGTCAACATT
106259 P G S CGCGCCGAGGCGGTTTAGATGGGTCATGY
106259 P C S ATGACGTGGCAGACGGGTTAGATGGGTCATGY
106259 T G S GCAGCATGACCCATCTAAACCGATGTTGACTCTCCCAGGCCTAGGGAGTGAAGAG
106259 T C S GCAGCATGACCCATCTAAACCATGTTGACTCTCCCAGGCCTAGGGAGTGAAGAG
106259 IS [GC] AAAAAATGTCTTCATGGTTGCATTACCTACTACAGTTTTGCAGCATGACCCATCTAAACC[GC]ATGTTGACTCTCCCAGGCCTAGGGAGTGAAGAGGTTTTGAATGCTGTAAGGAAACCCACT ctg15665 20
106270 I S GCAGCATGACTCTGTCTCTCTCTTCCCCACCT
106270 P T S CGCGCCGAGGACTGTTACTTACCTGAAGACTY
106270 P C S ATGACGTGGCAGACGCTGTTACTTACCTGAAGACY
106270 T T S TTGAAGTCTTCAGGTAAGTAACAGTGGTGGGGAAGAGACAGACAGAGTCATGCTGCGC
106270 T C S TTGAAGTCTTCAGGTAAGTAACAGCGGTGGGGAAGAGACAGACAGAGTCATGCTGCGC
106270 IS [TC] GTCCCAGACTTTTCACTGCCTTGGCAGGCTGGGGGTTTGAAGTCTTCAGGTAAGTAACAG[TC]GGTGGGGAAGAGACAGACAGAGTCATGCTGCGCCTCACCAGTGGGGCGGGGCTTTGACAT ctg22fm6 22
106272 I S GCATTGGTTACCACCGACTGGAAAAAAAGAGTA
106272 P G S ATGACGTGGCAGACCAGGATTCGTTTTGCCAY
106272 P A S CGCGCCGAGGTAGGATTCGTTTTGCCAAAT
106272 T G S AAAATTTGGCAAAACGAATCCTGACTCTTTTTTTCCAGTCGGTGTAACCAATGCTC
106272 T A S AAAATTTGGCAAAACGAATCCTAACTCTTTTTTTCCAGTCGGTGTAACCAATGCTC

FIGURE 129G

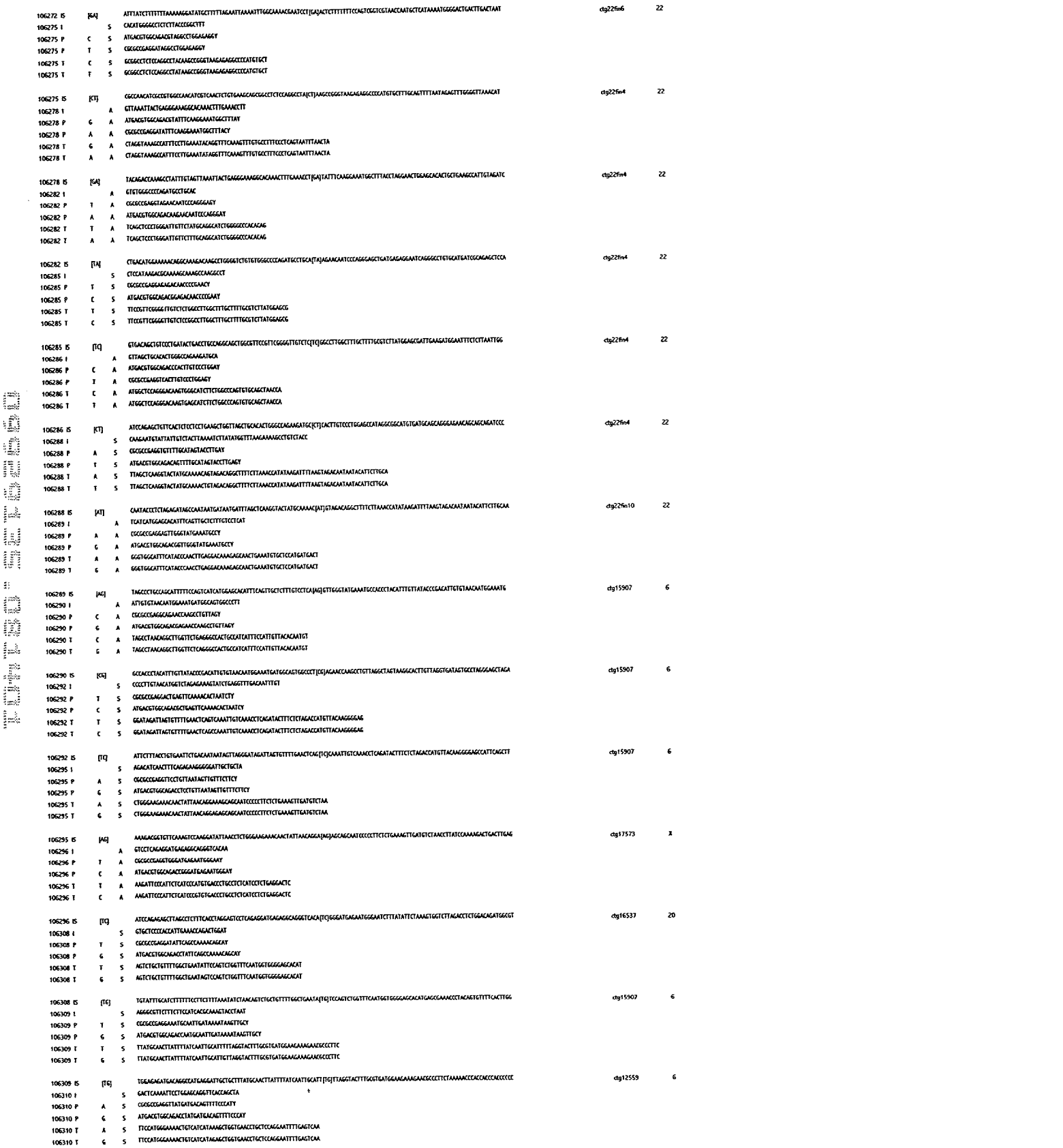
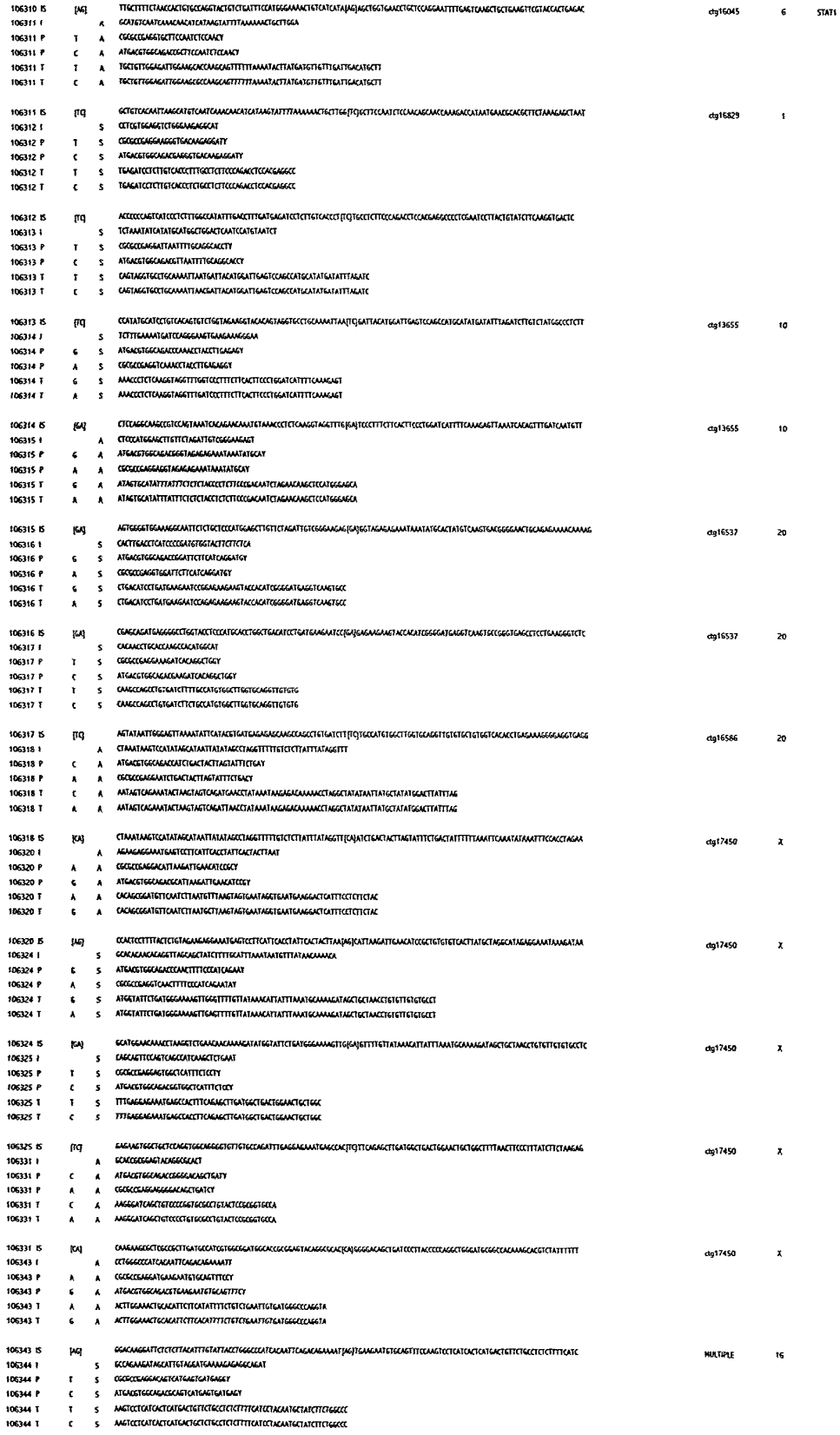

106272 IS [GA] ATTTATCTTTTTTTAAAAAGGATATGCTTTTTAGAATTAAAATTGGCAAAACGAATCCT[GA]ACTCTTTTTTCCAGTCGGTCGTAACCAATGCTCATAAAATGGGGACTGACTTGACTAAT ctg22fin6 22
106275 I S CACATGGGGCCTCTCTTACCCGCTTT
106275 P C S ATGACGTGGCAGACGTAGCCTGGAGAGGY
106275 P T S CGCGCCGAGGATAGGCCTGGAGAGGY
106275 T C S GCGGCCTCTCCAGGCCTACAAGCCGGGTAAGAGAGGCCCCATGTGCT
106275 T T S GCGGCCTCTCCAGGCCTATAAGCCGGGTAAGAGAGGCCCCATGTGCT
106275 IS [CT] CGCCAACATCGCCGTGGCCAACATCGTCAACTCTGTGAAGCAGCGGCCTCTCCAGGCCTA[CT]AAGCCGGGTAAGAGAGGCCCCATGTGCTTTGCAGTTTTAATAGAGTTTGGGGTTAAACAT ctg22fin4 22
106278 I A GTTAAATTACTGAGGGAAAGGCACAAACTTTGAAACCTT
106278 P G A ATGACGTGGCAGACGTATTTCAAGGAAATGGCTTTAY
106278 P A A CGCGCCGAGGATATTTCAAGGAAATGGCTTTAY
106278 T G A CTAGGTAAAGCCATTTCCTTGAAATACAGGTTTCAAAGTTTGTGCCTTTCCCTCAGTAATTTAACTA
106278 T A A CTAGGTAAAGCCATTTCCTTGAAATATAGGTTTCAAAGTTTGTGCCTTTCCCTCAGTAATTTAACTA
106278 IS [GA] TACAGACCAAAGCCTATTTGTAGTTAAATTACTGAGGGAAAGGCACAAACTTTGAAACCT[GA]TATTTCAAGGAAATGGCTTTACCTAGGAACTGGAGCACACTGCTGAAGCCATTGTAGATC ctg22fin4 22
106282 I A GTGTGGGCCCCAGATGCCTGCAC
106282 P T A CGCGCCGAGGTAGAACAATCCCAGGGAGY
106282 P A A ATGACGTGGCAGACAAGAACAATCCCAGGGAY
106282 T T A TCAGCTCCCTGGGATTGTTCTATGCAGGCATCTGGGGCCCACACAG
106282 T A A TCAGCTCCCTGGGATTGTTCTTTGCAGGCATCTGGGGCCCACACAG
106282 IS [TA] CTGACATGGAAAAACAGGCAAAGACAAGCCTGGGGTCTGTGTGGGCCCAGATGCCTGCA[TA]AGAACAATCCCAGGGAGCTGATGAGAGGAATCAGGGCCTGTGCATGATCGCAGAGCTCCA ctg22fin4 22
106285 I S CTCCATAAGACGCAAAAGCAAAGCCAAGCCT
106285 P T S CGCGCCGAGGAGAGACAACCCCGAACY
106285 P C S ATGACGTGGCAGACGGAGACAACCCCGAAY
106285 T T S TTCCGTTCGGGGGTTGTCTCTGGCCTTGGCTTTGCTTTGCGTCTTATGGAGCG
106285 T C S TTCCGTTCGGGGGTGTCTCCGGCCTTGGCTTTGCTTTGCGTCTTATGGAGCG
106285 IS [TC] GTGACAGCTGTCCCTGATACTGACCTGCCAGGCAGCTGGCGTTCCGTTCGGGGGTTGTCTC[TC]GGCCTTGGCTTTGCTTTGCGTCTTATGGAGCGATTGAAGATGGAATTTCTCTTAATTGG ctg22fin4 22
106286 I A GTTAGCTGCACACTGGGCCAGAAGATGCA
106286 P C A ATGACGTGGCAGACCCACTTGTCCCTGGAY
106286 P T A CGCGCCGAGGTCACTTGTCCCTGGAGY
106286 T C A ATGGCTCCAGGGACAAGTGGGCATCTCTCTGGCCCAGTGTGCAGCTAACCA
106286 T T A ATGGCTCCAGGGACAAGTGAGCATCTCTCTGGCCCAGTGTGCAGCTAACCA
106286 IS [CT] ATCCAGAGCTGTTCACTCTCCTCCTGAAGCTGGTTAGCTGCACACTGGGCCAGAAGATGC[CT]CACTTGTCCCTGGAGCCATAGGCGGCATGTGATGCAGCAGGGAGAACAGCAGCAGATCCC ctg22fin4 22
106288 I S CAAGAATGTATTATTGTCTACTTAAAATCTTATATGGTTTAAGAAAAGCCTGTCTACC
106288 P A S CGCGCCGAGGTGTTTTGCATAGTACCTTGAY
106288 P T S ATGACGTGGCAGACAGTTTTGCATAGTACCTTGAY
106288 T A S TTAGCTCAAGGTACTATGCAAAACAGTAGACAGGCTTTCTTAAACCATATAAGATTTAAGTAGACAATAATACATTCTTGCA
106288 T T S TTAGCTCAAGGTACTATGCAAAACTGTAGACAGGCTTTCTTAAACCATATAAGATTTAAGTAGACAATAATACATTCTTGCA
106288 IS [AT] CAATACCCTCTAGAGATAGCCAATAATGATAATGATTTAGCTCAAGGTACTATGCAAAAC[AT]GTAGACAGGCTTTCTTAAACCATATAAGATTTAAGTAGACAATAATACATTCTTGCAA ctg22fin10 22
106289 I A TCATCATGGAGCACATTTCAGTTGCTCTTTGTCCTCAT
106289 P A A CGCGCCGAGGAGTTGGGTATGAAATGCCY
106289 P G A ATGACGTGGCAGACGGTTGGGTATGAAATGCCY
106289 T A A GGGTGGCATTTCATACCCAACCTGAGGACAAAGAGCAACTGAAATGTGCTCCATGATGACT
106289 T G A GGGTGGCATTTCATACCCAACCTGAGGACAAAGAGCAACTGAAATGTGCTCCATGATGACT
106289 IS [AG] TAGCCCTGCCAGCATTTTCCAGTCATCATGGAGCACATTTCAGTTGCTCTTTGTCCTCA[AG]GTTGGGTATGAAATGCCACCCTACATTTGTTATACCCGACATTGTGTAACAATGGAAATG ctg15907 6
106290 I A ATTGTGTAACAATGGAAATGATGGCAGTGGCCCTT
106290 P C A CGCGCCGAGGCAGAACCAAGCCTGTTAGY
106290 P G A ATGACGTGGCAGACGAGAACCAAGCCTGTTAGY
106290 T C A TAGCCTAACAGGCTTGGTTCTGAGGGCCACTGCCATCATTTCCATTGTTACACAATGT
106290 T G A TAGCCTAACAGGCTTGGTTCTCAGGGCCACTGCCATCATTTCCATTGTTACACAATGT
106290 IS [CA] GCCACCCTACATTTGTTATACCCGACATTGTGTAACAATGGAAATGATGGCAGTGGCCCT[CG]AGAACCAAGCCTGTTAGGCTAGTAAGGCACTTGTTAGGTGATACTGCCTAGGGAGCTAGA ctg15907 6
106292 I S CCCCTTGTAACATGGTCTAGAGAAAGTATCTGAGGTTTGACAATTTGT
106292 P T S CGCGCCGAGCACTGAGTTCAAAACACTAATCTY
106292 P C S ATGACGTGGCAGACGCTGAGTTCAAAACACTAATCY
106292 T T S GGATAGATTAGTGTTTTGAACTCAGTCAAATTGTCAAACCTCAGATACTTTCTCTAGACCATGTTACAAGGGGAG
106292 T C S GGATAGATTAGTGTTTTGAACTCAGCCAAATTGTCAAACCTCAGATACTTTCTCTAGACCATGTTACAAGGGGAG
106292 IS [TC] ATTCTTTACCTGTGAATTCTGACAATAATAGTTAGGGATAGATTAGTGTTTTGAACTCAG[TC]CAAATTGTCAAACCTCAGATACTTTCTCTAGACCATGTTACAAGGGGAGCCATTCAGCTT ctg15907 6
106295 I S AGACATCAACTTTCAGAGAAGGGGGATTGCTGCTA
106295 P A S CGCGCCGAGGTCCTGTTAATAGTTGTTTCTTCY
106295 P G S ATGACGTGGCAGACCTCTGTTAATAGTTGTTTCTTCY
106295 T A S CTGGGAAGAAACAACTATTAACAGGAGAAGCAGCAATCCCCCTTCTCTGAAAGTTGATGTCTAA
106295 T G S CTGGGAAGAAACAACTATTAACAGGAGAAGCAGCAATCCCCCTTCTCTGAAAGTTGATGTCTAA
106295 IS [AG] AAAGACGGTGTTCAAAGTCCAAGGATATTAACCTCTGGGAAGAAACAACTATTAACAGGA[AG]AGCAGCAATCCCCCTTCTCTGAAAGTTGATGTCTAACCTTATCCAAAAGACTGACTTGAG ctg17573 X
106296 I A GTCCTCAGAGGATGAGAGGCAGGGTCACAA
106296 P T A CGCGCCGAGGTGGGATGAGAATGGGAAT
106296 P C A ATGACGTGGCAGACCGGGATGAGAATGGGAT
106296 T T A AAGATTCCCATTCTCATCCCATGTGAGCCTGCCTCTCATCCTCTGAGGACTC
106296 T C A AAGATTCCCATTCTCATCCCGTGTGAGCCTGCCTCTCATCCTCTGAGGACTC
106296 IS [TC] ATCCAGAGAGCTTAGCCTCTTTCACCTAGGAGTCCTCAGAGGATGAGAGGCAGGGTCACA[TC]GGGATGAGAATGGGAATCTTTATATTCTAAAGTGGTCTTAGACCTCTGGACAGATGGCGT ctg16537 20
106308 I S GTGCTCCCCACCATTGAAACCAGACTGGAT
106308 P T S CGCGCCGAGGATATTCAGCCAAAACAGCAT
106308 P G S ATGACGTGGCAGACCTATTCAGCCAAAACAGCAY
106308 T T S AGTCTGCTGTTTTGGCTGAATATTCCAGTCTGGTTTCAATGGTGGGGAGCACAT
106308 T G S AGTCTGCTGTTTTGGCTGAATAGTCCAGTCTGGTTTCAATGGTGGGGAGCACAT
106308 IS [TG] TGTATTTGCATCTTTTTTCCTTCTTTAAATATCTAACAGTCTGCTGTTTTGGCTGAATA[TG]TCCAGTCTGGTTTCAATGGTGGGGAGCACATGAGCGAAACCCTACAGTGTTTTCACTTGG ctg15907 6
106309 I S AGGGCGTTCTTTCTTCCATCACGCAAAGTACCTAAT
106309 P T S CGCGCCGAGGAAATGCAATTGATAAAATAAGTTGCY
106309 P G S ATGACGTGGCAGACCAATGCAATTGATAAAATAAGTTGCY
106309 T T S TTATGCAACTTATTTTATCAATTGCATTTTTAGGTACTTTGGGTGATGGAAGAAAGAAAGCCCTTC
106309 T G S TTATGCAACTTATTTTATCAATTGCATTGTTAGGTACTTTGCGTGATGGAAGAAAGAAGCCCTTC
106309 IS [TG] TGGAGAGATGACAGGCCATGAGGATTGCTGCTTTATGCAACTTATTTTATCAATTGCATT[TG]TTAGGTACTTTGCGTGATGGAAGAAAGAACGCCCTTCTAAAAACCCACCACCCACCCCCC ctg12559 6
106310 I S GACTCAAAATTCCTGGAGCAGGTTCACCAGCTA
106310 P A S CGCGCCGAGGTTATGATGACAGTTTTCCCATY
106310 P G S ATGACGTGGCAGACCTATGATGACAGTTTTCCCAY
106310 T A S TTCCATGGGAAAACTGTCATCATAAAGCTGGTGAACCTGCTCCAGGAATTTTGAGTCAA
106310 T G S TTCCATGGGAAAACTGTCATCATAGAGCTGGTGAACCTGCTCCAGGAATTTTGAGTCAA

FIGURE 129G


106310 IS [AG] TTGCTTTTCTAACCACTGTGCCAGGTACTGTCTGATTTCCATGGGAAAACTGTCATCATA[AG]AGCTGGTGAACCTGCTCCAGGAATTTTGAGTCAAGCTGCTGAAGTTCGTACCACTGAGAC dbg16045 6 STAT1
106311 I A GCATGTCAATCAAACAACATCATAAGTATTTTAAAAAACTGCTTGGA
106311 P T A CGGCCGAGGTGCTTCCAATCTCCAACY
106311 P C A ATGACGTGGCAGACCGCTTCCAATCTCCAACY
106311 T T A TGCTGTTGGAGATTGGAAGCNCCAAGCAGTTTTTTTAAAATACTTATGATGTTGTTTGATTGACATGCTT
106311 T C A TGCTGTTGGAGATTGGAAGCGCCAAGCAGTTTTTTAAAATACTTATGATGTTGTTTGATTGACATGCTT

106311 IS [TC] GCTGTCACAATTAAGCATGTCAATCAAACAACATCATAAGTATTTTAAAAAACTGCTTGG[TC]GCTTCCAATCTCCAACAGCAACCAAAGACCATAATGAACGCACGCTTCTAAAGAGCTAAT dbg16829 1
106312 I S CCTCGTGGAGGTCTGGGAAGAGGCAT
106312 P T S CGCGCCCAGGAAGGGTGACAAGAGGATY
106312 P C S ATGACGTGGCAGACGAGGGTGACAAGAGGATY
106312 T T S TGAGATCCTCTTGTCACCCTTTGCCTCTTCCCAGACCTCCACGAGGCC
106312 T C S TGAGATCCTCTTGTCACCCTCTGCCTCTTCCCAGACCTCCACGAGGCC

106312 IS [TC] ACCCCCCAGTCATCCCTCTTTGGGCATATTTGAACTTTGATGAGATCCTCTTGTCACCCT[TC]TGCCTCTTCCCAGACCTCCACGAGGCCCCTCGAATCCTTACTGTATCTTCAAGGTGACTC
106313 I S TCTAAATATCATATGCATGGCTGGACTCAATCCATGTAATCT
106313 P T S CGCGCCGAGGATTAATTTTGCAGGCACCTY
106313 P C S ATGACGTGGCAGACGTTAATTTTGCAGGCACCTY
106313 T T S CAGTAGGTGCCTGCAAAATTAATGATTACATGGATTGAGTCCAGCCATGCATATGATATTTAGATC
106313 T C S CAGTAGGTGCCTGCAAAATTAACGATTACATGGATTGAGTCCAGCCATGCATATGATATTTAGATC

106313 IS [TC] CCATATGCATCCTGTCACAGTGTCTGGTAGAAGGTACACAGTAGGTGCCTGCAAAATTAA[TC]GATTACATGGATTGAGTCCAGCCATGCATATGATATTTAGATCTTGTCTATGGCCCTCTT dbg13655 10
106314 J S TCTTTGAAAATGATCCAGGGAAGTGAAGAAAGGGAA
106314 P G S ATGACGTGGCAGACCAAACCTACCTTGAGAGY
106314 P A S CGCGCCGAGGTCAAACCTACCTTGAGAGY
106314 T G S AAACCCTCTCAAGGTAGGTTTGGTCCCTTTCTTCACTTCCCTGGATCATTTTCAAAGAGT
106314 T A S AAACCCTCTCAAGGTAGGTTTGATCCCTTTCTTCACTTCCCTGGATCATTTTCAAAGAGT

106314 IS [GA] CTCCAGGCCAGCCGTCCAGTAAATCACAGAACAAATGTAAACCCTCTCAAGGTAGGTTTG[GA]TCCCTTTCTTCACTTCCCTGGATCATTTTCAAAGAGTTAAATCACAGTTTGATCAATGTT dbg13655 10
106315 I A CTCCCATGGAAGCTTGTTCTAGATTGTCGGGAAGAGT
106315 P G A ATGACGTGGCAGACGGGTAGAGAGAGAAATAAATATGCAY
106315 P A A CGCGCCGAGGAGGTAGAGAGAAATAAATATGCAY
106315 T G A ATAGTGCATATTTATTTCTCTCTACCCCTCTTCCCGACAATCTAGAACAAGCTCCATGGGAGCA
106315 T A A ATAGTGCATATTTATTTCTCTCTACCTCTCTTCCCGACAATCTAGAACAAGCTCCATGGGAGCA

106315 IS [GA] AGTGGGGTGGAAAGGCAATTCTCTGCTCCCATGGAGCTTGTTCTAGATTGTCGGGAAGAG[GA]GGTAGAGAGAAATAAATATGCACTATGTCAAGTGACGGGGAACTGCAGAGAAAACAAAAG dbg16537 20
106316 I S CACTTGACCTCATCCCCGATGTGGTACTTCTTCTCA
106316 P G S ATGACGTGGCAGACCGGATTCTTCATCAGGATGY
106316 P A S CGCGCCGAGGTGGATTCTTCATCAGGATGY
106316 T G S CTGACATCCTGATGAAGAATCCGGAAGAAGAAGTACCACATCGGGGATGAGGTCAAGTGCC
106316 T A S CTGACATCCTGATGAAGAATCCAGAGAAGAAGTACCACATCGGGGATGAGGTCAAGTGCC

106316 IS [GA] CGAGCAGATGAGGGGCCTGGTACCTCCCATGCACCTGGCTGACATCCTGATGAAGAATCC[GA]GAGAAGAAGTACCACATCGGGGATGAGGTCAAGTGCCGGGTGAGCCTCCTGAAGGGTCTC dbg16537 20
106317 I S CACAACCTGCACCAAGCCACATGGCAT
106317 P T S CGCGCCGAGGAAGATCACAGGCTGCY
106317 P C S ATGACGTGGCAGACGAAGATCACAGGCTGGY
106317 T T S CAAGCCAGCCTGTGATCTTCTGCCATGTGGCTTGGTGCAGGTTGTGTG
106317 T C S CAAGCCAGCCTGTGATCTTCTGCCATGTGGCTTGGTGCAGGTTGTGTG

106317 IS [TC] AGTATAATTGGGAGTTAAAATATTCATACGTGATGAGAGAGCAAGCCAGCCTGTGATCTT[TC]TGCCATGTGGCTTGGTGCAGGTTGTGTGTGCTGTGGTCACACCTGAGAAAGGGGAGGTGACG dbg16586 20
106318 I A CTAAATAAGTCCATATAGCATAATTATATAGCCTAGGTTTTTGTCTCTTATTTATAGGTTT
106318 P C A ATGACGTGGCAGACCATCTGACTACTTAGTATTTCTGAY
106318 P A A CGCGCCGAGGAATCTGACTACTTAGTATTTCTGACY
106318 T C A AATAGTCAGAAATACTAAGTAGTCAGATCAACCTATAAATAAGAGACAAAAACCTAGGCTATATAATTATGCTATATGGACTTATTTAG
106318 T A A AATAGTCAGAAATACTAAGTAGTCAGATTAACCTATAAATAAGAGACAAAAACCTAGGCTATATAATTATGCTATATGGACTTATTTAG

106318 IS [CA] CTAAATAAGTCCATATAGCATAATTATATAGCCTAGGTTTTTGTCTCTTATTTATAGGTT[CA]ATCTGACTACTTAGTATTTCTGACTATTTTTTAAATTCAAATATAAATTTCCACCTAGAA dbg17450 X
106320 I A AGAAGAGGAAATGAGTCCTTCATTCACCTATTCACTACTTAAT
106320 P A A CGCGCCGAGGACATTAAGATTGAACATCCGCY
106320 P G A ATGACGTGGCAGACGCATTAAGATTGAACATCCGY
106320 T A A CACAGCGGATGTTCAATCTTAATGTTTAAGTAGTGAATAGGTGAATGAAGGACTCATTTCCTCTCTAC
106320 T G A CACAGCGGATGTTCAATCTTAATGCTTAAGTAGTGAATAGGTGAATGAAGGACTCATTTCCTCTCTAC

106320 IS [AG] CCACTCCTTTTACTCTGTAGAAGAGGAAATGAGTCCTTCATTCACCTATTCACTACTTAA[AG]CATTAAGATTGAACATCCGCTGTGTGTCACTTATGCTAGGCATAGAGGAAATAAAGATAA dbg17450 X
106324 I S GCACACAACACAGGTTAGCAGCTATCTTTTGCATTTAAATAATGTTTATAACAAAACA
106324 P G S ATGACGTGGCAGACCCAACTTTTCCCATCAGAAY
106324 P A S CGCGCCGAGGTCAACTTTTCCCATCAGAATAY
106324 T G S ATGGTATTCTGATGGGAAAAGTTGGGTTTTGTTATAAACATTATTTAAATGCAAAAGATAGCTGCTAACCTGTGTTGTGTGCCT
106324 T A S ATGGTATTCTGATGGGAAAAGTTGAGTTTTGTTATAAACATTATTTAAATGCAAAAGATAGCTGCTAACCTGTGTTGTGTGCCT

106324 IS [GA] GCATGGAACAAACCTAAGGTCTGAACAACAAAGCATATGGTATTCTGATGGGAAAAGTTG[GA]GTTTTGTTATAAACATTATTTAAATGCAAAAGATAGCTGCTAACCTGTGTTGTGTGCCTC dbg17450 X
106325 I S CAGCAGTTCCAGTCAGCCATCAAGCTCTGAAT
106325 P T S CGCGCCGAAGGAGTGGCTCATTTCTCCTY
106325 P C S ATGACGTGGCAGACGGTGGCTCATTTCTCCY
106325 T T S TTTGAGGAGAAATGAGCCACTTTCAGAGCTTGATGGCTGACTGGAACTGCTGGC
106325 T C S TTTGAGGAGAAATGAGCCACCTTCAGAGCTTGATGGCTGACTGGAACTGCTGGC

106325 IS [TC] GAGAAGTGGCTGCTCCAGGTGGCAGGGGTGTTGTGCCAGATTTGAGGAGAAATGAGCCAC[TC]TTCAGAGCTTGATGGCTGACTGGAACTGCTGGCTTTTAACTTCCCTTTATCTTCTAAGAG dbg17450 X
106331 I A GCACGCGCGGAGTACAGGCGCACT
106331 P C A ATGACGTGGCAGACCGGGCACAGCTGATY
106331 P A A CGCGCCGAGGAGGGGACAGCTGATCY
106331 T C A AAGGGATCAGCTGTCCCCGGTGCGGCCTGTACTCCGGGGTGCCA
106331 T A A AAGGGATCAGCTGTCCCCTGTGCGGCCTGTACTCCGCGGTGCCA

106331 IS [CA] CAAGAAGGCTCGCCGCTTGATGCCATCGTGGCGGATGGCACCCGCGGAGTACAGGCGCAC[CA]GGGGACAGCTGATCCCTTACCCCTAGGCTGGGATGCGGCCACAAAGCACGTCTATTTTTT dbg17450 X
106343 I A CCTGGGCCCATCAGAATTCAGACAGAAAATT
106343 P A A CGCGCCGAGGATGAAGAATGTGCAGTTTCCY
106343 P G A ATGACGTGGCAGACGTGAAGAATGTGCAGTTTCY
106343 T A A ACTTGGAAACTGCACATTCTTCATATTTTCTGTCTGAATTGTGATGGGCCCAGGTA
106343 T G A ACTTGGAAACTGCACATTCTTCACATTTTCTGTCTGAATTGTGATGGGCCCAGGTA

106343 IS [AG] GGACAAGGATTCTCTCTTACATTTGTATTACCTGGGCCCATCACAATTCAGACAGAAAAATTAG[T]GAAGAATGTGCAGTTTCCAAGTCCTCATCACTCATGACTGTTCTGCCTCTCTTTTCATC MULTIPLE 16
106344 I S GCCAGAAGATAGCATTGTAGGATGAAAAGAGAGGCAGAT
106344 P T S CGCGCCGAGGACAGTCATGAGTGATGAGGY
106344 P C S ATGACGTGGCAGACGCAGTCATGAGTGATGAGY
106344 T T S AAGTCCTCATCACTCATGACTGTTCTGCCTCTCTTTTCATCCTACAATGCTATCTTCTGGCCC
106344 T C S AAGTCCTCATCACTCATGACTGCTCTGCCTCTCTTTTCATCCTACAATGCTATCTTCTGGCCC

FIGURE 129G

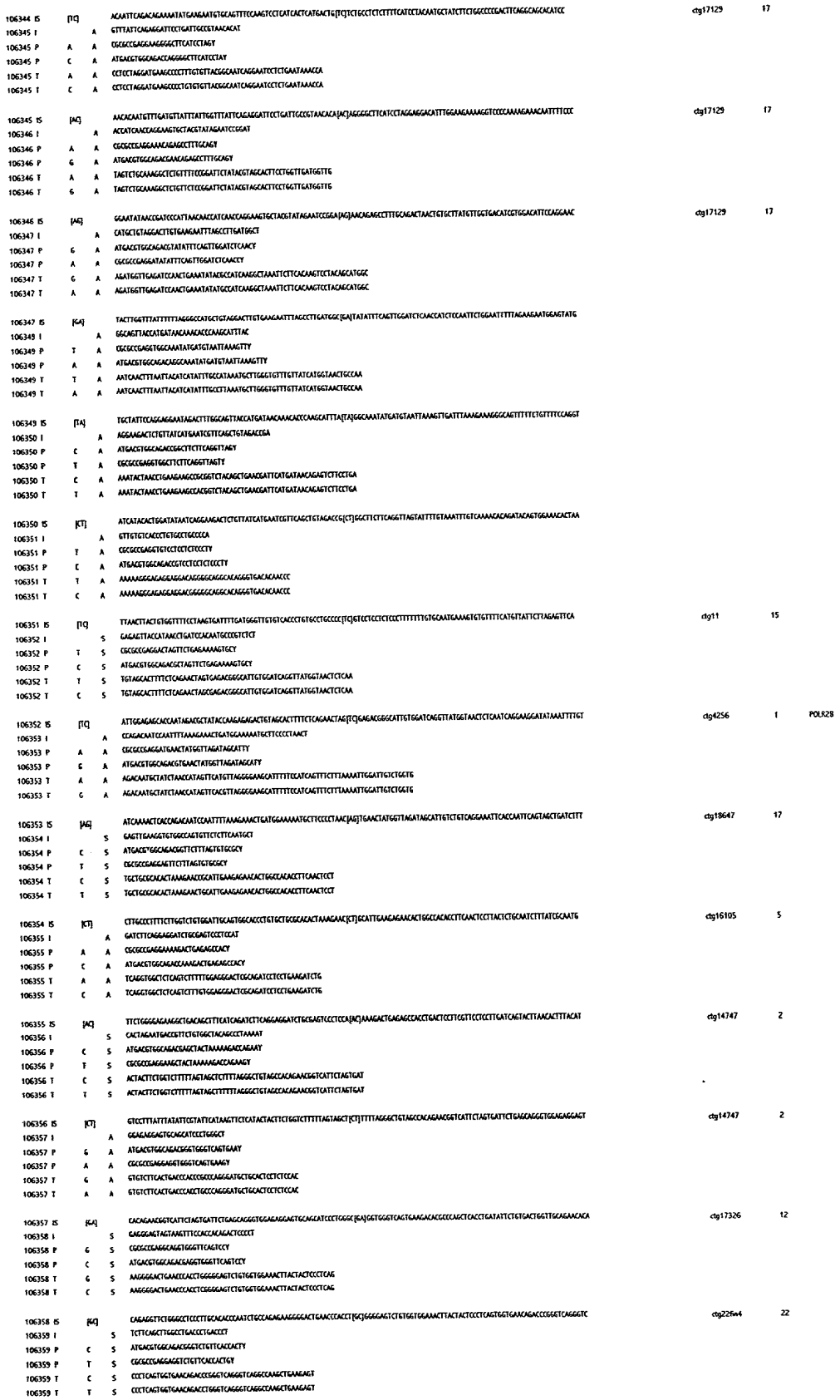

106344 IS [TC] ACAATTCAGACAGAAAATATGAAGAATGTGCAGTTTCCAAGTCCTCATCACTCATGACTG[TC]TCTGCCTCTCTTTTCATCCTACAATGCTATCTTCTGGCCCCGACTTCAGGCCAGCACATCC ctg17129 17
106345 I A GTTTATTCAGAGGATTCCTGATTGCCGTAACACAT
106345 P A A CGCGCCGAGGAAGGGGCTTCATCCTAGT
106345 P C A ATGACGTGGCAGACCAGGGGCTTCATCCTAT
106345 T A A CCTCCTAGGATGAAGCCCCTTTGTGTTACGGCAATCAGGAATCCTCTGAATAAACCA
106345 T C A CCTCCTAGGATGAAGCCCCTGTGTGTTACGGCAATCAGGAATCCTCTGAATAAACCA
106345 IS [AC] AACACAATGTTTGATGTTATTTATTGGTTTATTCAGAGGATTCCTGATTGCCGTAACACA[AC]AGGGGCTTCATCCTAGGAGGACATTTGGAAGAAAAGGTCCCCAAAGAAACAATTTTCCC ctg17129 17
106346 I A ACCATCAACCAGGAAGTGCTACGTATAGAATCCGGAT
106346 P A A CGCGCCGAGGAAACAGAGGCTTTGCAGT
106346 P G A ATGACGTGGCAGACGAACAGAGCCTTTGCAGT
106346 T A A TAGTCTGCAAAGGCTCTGTTTTCCGGATTCTATACGTAGCACTTCCTGGTTGATGGTTG
106346 T G A TAGTCTGCAAAGGCTCTGTTCTCCGGATTCTATACGTAGCACTTCCTGGTTGATGGTTG
106346 IS [AG] GGAATATAACCGATCCCATTAACAACCATCAACCAGGAAGTGCTACGTATAGAATCCGGA[AG]AACAGAGCCTTTGCAGACTAACTGTGCTTATGTTGGTGACATCGTGGACATTCCAGGAAC ctg17129 17
106347 I A CATGCTGTAGGACTTGTGAAGAATTTAGCCTTGATGGCT
106347 P G A ATGACGTGGCAGACGTATATTTCAGTTGGATCTCAACY
106347 P A A CGCGCCGAGGATATATTTCAGTTGGATCTCAACCY
106347 T G A AGATGGTTGAGATCCAACTGAAATATACGCCATCAAGGCTAAATTCTTCACAAGTCCTACAGCATGGC
106347 T A A AGATGGTTGAGATCCAACTGAAATATATGCCATCAAGGCTAAATTCTTCACAAGTCCTACAGCATGGC
106347 IS [GA] TACTTGGTTTATTTTTTAGGGCCATGCTGTAGGACTTGTGAAGAATTTAGCCTTGATGGC[GA]TATATTTCAGTTGGATCTCAACCATCTCCAATTCTGGAATTTTTAGAAGAATGGAGTATG ctg17129 17
106349 I A GGCAGTTACCATGATAACAAACACCAAGCATTTAC
106349 P T A CGCGCCGAGGTGGCAAATATGATGTAATTAAAGTTY
106349 P A A ATGACGTGGCAGACAGGCAAATATGATGTAATTAAAGTTY
106349 T T A AATCAACTTTAATTACATCATATTTGCCATAAATGCTTGGGTGTTTGTTATCATGGTAACTGCCAA
106349 T A A AATCAACTTTAATTACATCATATTTGCCTTAAATGCTTGGGTGTTTGTTATCATGGTAACTGCCAA
106349 IS [TA] TGCTATTCCAGGAGGAATAGACTTTGGCAGTTACCATGATAACAAACACCCAAGCATTTA[TA]GGCAAATATGATGTAATTAAAGTTGATTTAAAGAAAGGGCAGTTTTTCTGTTTTCCAGGT ctg17129 17
106350 I A AGGAAGACTCTGTTATCATGAATCGTTCAGCTGTAGACCGA
106350 P C A ATGACGTGGCAGACCGGCTTCTTCAGGTTAGY
106350 P T A CGCGCCGAGGTGGCTTCTTCAGGTTAGTY
106350 T C A AAATACTAACCTGAAGAAGCCGCGGTCTACAGCTGAACGATTCATGATAACAGAGTCTTCCTGA
106350 T T A AAATACTAACCTGAAGAAGCCACGGTCTACAGCTGAACGATTCATGATAACAGAGTCTTCCTGA
106350 IS [CT] ATCATACACTGGATATAATCAGGAAGACTCTGTTATCATGAATCGTTCAGCTGTAGACCG[CT]GGCTCTCTTCAGGTTAGTATTTTGTAAATTTGTCAAAACACAGATACAGTGGAAACACTAA ctg11 15
106351 I A GTTGTCTCACCCTGTGCCTGCCCCA
106351 P T A CGCGCCGAGGTGTCCTCCTCTCCCTY
106351 P C A ATGACGTGGCAGACCGTCCTCCTCTCCCTY
106351 T T A AAAAAGGGCAGAGGAGGACAGGGGCAGGCACAGGGTGACACAACCC
106351 T C A AAAAAGGCAGAGGAGGACGGGGCAGGCACAGGGTGACACAACCC
106351 IS [TC] TTAACTTACTGTGGTTTCCTAAGTGATTTTGATGGGTTGTGTCACCCTGTGCCTGCCCCC[TC]GTCCTCCCTCCCTTTTTTGTGCAATGAAAGTGTGTTTTCATGTTATTCTTAGAGTTCA ctg11 15
106352 I S GAGAGTTACCATAACCTGATCCACAATGCCCGTCTCT
106352 P T S CGCGCCGAGGACTAGTTCTGAGAAAAGTGCY
106352 P C S ATGACGTGGCAGACGCTAGTTCTGAGAAAAGTGCY
106352 T T S TGTAGCACTTTTCTCAGAACTAGTGAGACGGGCATTGTGGATCAGGTTATGGTAACTCTCAA
106352 T C S TGTAGCACTTTTCTCAGAACTAGCGAGACGGGCATTGTGGATCAGGTTATGGTAACTCTCAA
106352 IS [TC] ATTGGAGAGCACCAATAGAGCTATACCAAGAGAGACTGTAGCACTTTTCTCAGAACTAG[TC]GAGACGGGCATTGTGGATCAGGTTATGGTAACTCTCAATCAGGAAGGATATAAATTTTGT ctg4256 1 POLR2B
106353 I A CCAGACAATCCAATTTTAAAGAAACTGATGGAAAAATGCTTCCCCTAACT
106353 P A A CGCGCCGAGGATGAACTATGGTTAGATAGCATTY
106353 P G A ATGACGTGGCAGACGTGAACTATGGTTAGATAGCATTY
106353 T A A AGACAATGCTATCTAACCATAGTTCATGTTAGGGGAAGCATTTTTCCATCAGTTTCTTTAAAATTGGATTGTCTGGTG
106353 T G A AGACAATGCTATCTAACCATAGTTCACGTTAGGGGAAGCATTTTTCCATCAGTTTCTTTAAAATTGGATTGTCTGGTG
106353 IS [AG] ATCAAAACTCACCAGACAATCCAATTTTAAAGAAACTGATGGAAAAATGCTTCCCCTAAC[AG]TGAACTATGGTTAGATAGCATTGTCTGTCAGGAAATTCACCAATTCAGTAGCTGATCTTT ctg18647 17
106354 I S CAGTTGAAGGTGTGGCCAGTGTTCTCTTCAATGCT
106354 P C S ATGACR*GGCAGACGGTTCTTTAGTGTGCGCY
106354 P T S CGCGCCGAGGAGTTCTTTAGTGTGCGCY
106354 T C S TGCTGCGCACACTAAAGAACTGCATTGAAGAGAACACTGGCCACACCTTCAACTCCT
106354 T T S TGCTGCGCACACTAAAGAACTGCATTGAAGAGAACACTGGCCACACCTTCAACTCCT
106354 IS [CT] CTTGCCCTTTTCTTGGTCTGTGGATTGCAGTGGCACCCTGTGCTGCGCACACTAAAGAAC[CT]GCATTGAAGAGAACACTGGCCACACCTTCAACTCCTTACTCTGCAATCTTTATCGCAATG ctg16105 5
106355 I A GATCTTCAGGAGCATCTGCGAGTCCCTCCAT
106355 P A A CGCGCCGAGGAAAGAGCTGAGAGCCACY
106355 P C A ATGACGTGGCAGACCAAAGACTGAGAGCCACY
106355 T A A TCAGGTGGCTCTCAGTCTTTTGGAGGGACTCGCAGATCCTCCTGAAGATCTG
106355 T C A TCAGGTGGCTCTCAGTCTTTGTGGAGGGACTCGCAGATCCTCCTGAAGATCTG
106355 IS [AC] TTCTGGGGAGAAGGCTGACAGCTTTCATCAGATCTCAGGAGGATCTGCGAGTCCCTCCA[AC]AAAGACTGAGAGCCACCTGACTCCTTCGTTCCTCCTTGATCAGTACTTAACACTTTACAT ctg14747 2
106356 I S CACTAGAATGACCGTTCTGTGGCTACAGCCCTAAAAT
106356 P C S ATGACGTGGCAGACGAGCTACTAAAAAGACCAGAAY
106356 P T S CGCGCCGAGGAAGCTACTAAAAAGACCAGAAGY
106356 T C S ACTACTTCTGGTCTTTTTAGTAGCTCTTTTAGGGCTGTAGCCACAGAACGGTCATTCTAGTGAT
106356 T T S ACTACTTCTGGTCTTTTTAGTAGCTTTTTAGGGCTGTAGCCACAGAACGGTCATTCTAGTGAT
106356 IS [CT] GTCCTTTATTTATATTCGTATTCATAAGTTCTCATACTACTCTGGTCTTTTTAGTAGCT[CT]TTTTAGGGCTGTAGCCACAGAACGGTCATTCTAGTGATTCTGAGCAGGGTGGAGAGGAGT ctg14747 2
106357 I A GGAGAGGAGTGCAGCATCCCTGGGCT
106357 P G A ATGACGTGGCAGACGGGTGGGTCAGTGAAY
106357 P A A CGCGCCGAGGAGGTGGGTCAGTGAAGY
106357 T G A GTGTCTTCACTGACCCACCCGCCCAGGGATGCTGCACTCCTCTCCAC
106357 T A A GTGTCTTCACTGACCCACCTGCCCAGGGATGCTGCACTCCTCTCCAC
106357 IS [GA] CACAGAACGGTCATTCTAGTGATTCTGAGCAGGGTGGAGAGGAGTGCAGCATCCCTGGGC[GA]GGTGGGTCAGTGAAGACACGCCCAGCTCACCTGATATTCTGTGACTGGTTGCAGAACNCA ctg17326 12
106358 I S GAGGGAGTAGTAAGTTTCCACCACAGACTCCCCT
106358 P G S CGGCCCGAGGCAGGTGGGTTCAGTCCY
106358 P C S ATGACGTGGCAGACGAGGGTGGGTTCAGTCCY
106358 T G S AAGGGGACTGAACCCACCTGGGGGAGTCTGTGGTGGAAACTTACTACTCCCTCAG
106358 T C S AAGGGGACTGAACCCACCTCGGGGGAGTCTGTGGTGGAAACTTACTACTCCCTCAG
106358 IS [GC] CAGAGGTTCTGGGCCTCCCTTGCACACCCAATCTGCCAGAGAAGGGGACTGAACCCACCT[GC]GGGGAGTCTGTGGTGGAAACTTACTACTCCCTCAGTGGTGAACAGACCCGGGTCAGGGTC ctg226w4 22
106359 I S TCTTCAGCTTGGCCTGACCCTGACCCT
106359 P C S ATGACGTGGCAGACGGGTCTGTTCACCACTY
106359 P T S CGCGCCGAGGAGGTCTGTTCACCACTGY
106359 T C S CCCTCAGTGGTGAACAGACCCGGGTCAGGGTCAGGCCAAGCTGAAGAGT
106359 T T S CCCTCAGTGGTGAACAGACCTGGGTCAGGGTCAGGCCAAGCTGAAGAGT

FIGURE 129G

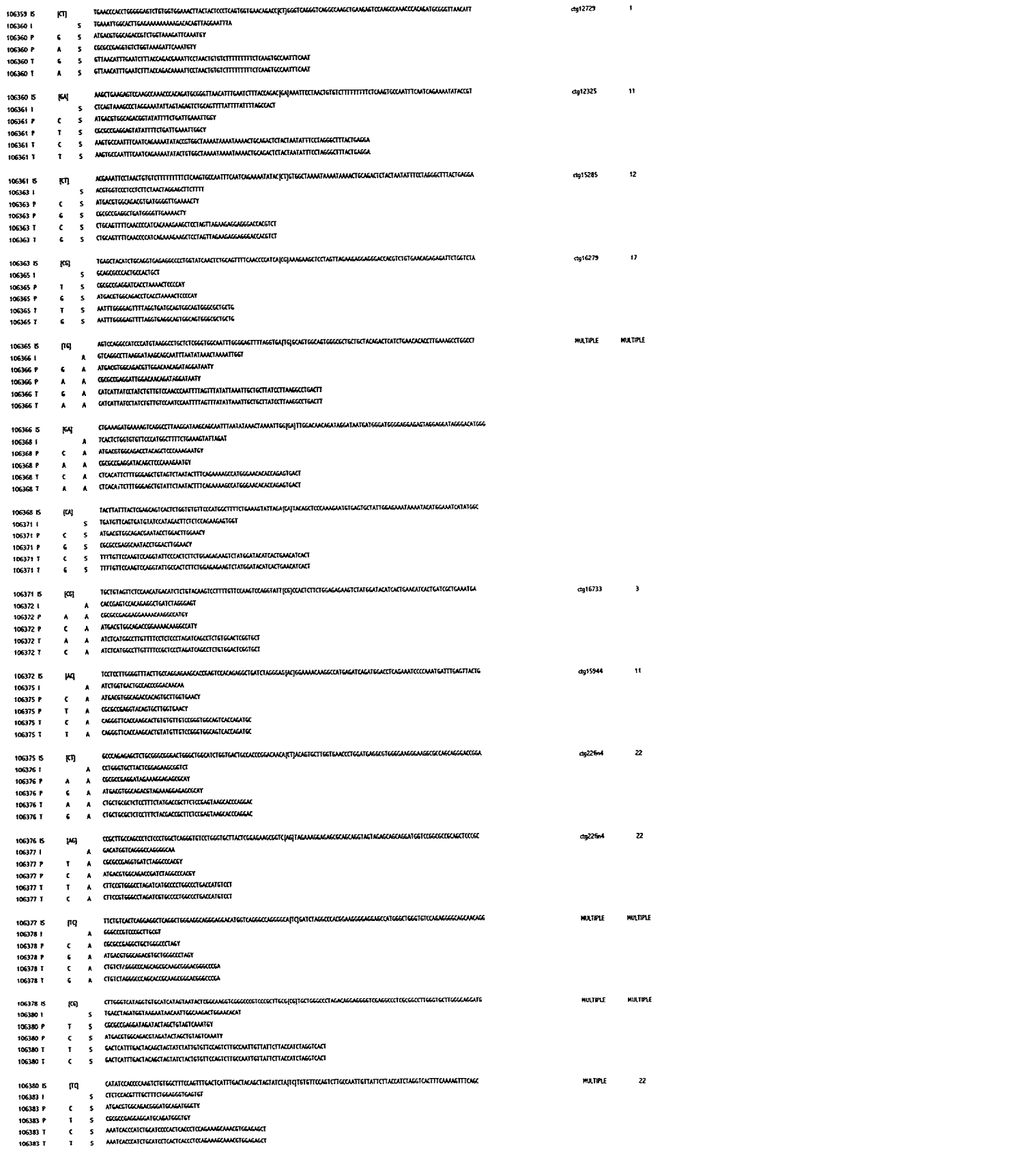

106359 IS [CT] TGAACCCACCTGGGGGAGTCTGTGGTGGAAACTTACTACTCCCTCAGTGGTGAACAGACC[CT]GGGTCAGGGTCAGGCCAAGCTGAAGAGTCCAAGCAAACCCACAGATGGGGGTTAACATT ctg12729 1
106360 I S TGAAATTGGCACTTGAGAAAAAAAAGACACAGTTAGGAATTTA
106360 P G S ATGACGTGGCAGACGGTCTGGTAAAGATTCAAATGY
106360 P A S CGGGCCGAGGTGTCTGGTAAAGATTCAAATGY
106360 T G S GTTAACATTTGAATCTTTACCAGACAAAATTCCTAACTGTGTCTTTTTTTTTCTCAAGTGCCAATTTCAAT
106360 T A S GTTAACATTTGAATCTTTACCAGACAAAATTCCTAACTGTGTCTTTTTTTTTCTCAAGTGCCAATTTCAAT
106360 IS [GA] AAGCTGAAGAGTCCAAGCCAAACCCACAGATGCGGGTTAACATTTGAATCTTTACCAGAC[GA]AAATTCCTAACTGTGTCTTTTTTTTTCTCAAGTGCCAATTTCAATCAGAAAATATACCGT ctg12325 11
106361 I S CTCAGTAAAGCCCTAGGAAATATTAGTAGAGTCTGCAGTTTTATTTTATTTTAGCCACT
106361 P C S ATGACGTGGCAGACGGTATATTTTCTGATTGAAATTGGCT
106361 P T S CGCGCCGAGGAGTATATTTTCTGATTGAAATTGGCT
106361 T C S AAGTGCCAATTTCAATCAGAAAATATACCGTGGCTAAAATAAAATAAAACTGCAGACTCTACTAATATTTCCTAGGGCTTTACTGAGGA
106361 T T S AAGTGCCAATTTCAATCAGAAAATATACTGTGGCTAAAATAAAATAAAACTGCAGACTCTACTAATATTTCCTAGGGCTTTACTGAGGA
106361 IS [CT] ACGAAATTCCTAACTGTGTCTTTTTTTTTCTCAAGTGCCAATTTCAATCAGAAAATATAC[CT]GTGGCTAAAATAAAATAAAACTGCAGACTCTACTAATATTTCCTAGGGCTTTACTGAGGA ctg15285 12
106363 I S ACGTGGTCCCTCCTCTTCTAACTAGGAGCTTCTTTT
106363 P C S ATGACGTGGCAGACGTGATGGGGTTGAAAACTY
106363 P G S CGCGCCGAGGCTGATGGGGTTGAAAACTY
106363 T C S CTGCAGTTTTCAACCCCATCACAAAGAAGCTCCTAGTTAGAAGAGGAGGGACCACGTCT
106363 T G S CTGCAGTTTTCAACCCCATCAGAAAGAAGCTCCTAGTTAGAAGAGGAGGGACCACGTCT
106363 IS [CG] TGAGCTACATCTGCAGGTGAGAGGCCCTGGTATCAACTCTGCAGTTTTCAACCCCATCA[CG]AAAGAAGCTCCTAGTTAGAAGAGGAGGGACCACGTCTGTGAACAGAGAGATTCTGGTCTA ctg16279 17
106365 I S GCAGCGCCCACTGCCACTGCT
106365 P T S CGCGCCGAGGATCACCTAAAACTCCCCAY
106365 P G S ATGACCTGGCAGACCTCACCTAAAACTCCCCAY
106365 T T S AATTTGGGGAGTTTTAGGTGATGCAGTGGCAGTGGGCGCTGCTG
106365 T G S AATTTGGGGAGTTTTAGGTGAGGCAGTGGCAGTGGGCGCTGCTG
106365 IS [TG] AGTCCAGGCCATCCATGTAAGGCCTGCTCTCGGGTGGCAATTTGGGGAGTTTTAGGTGA[TG]GCAGTGGCAGTGGGCGCTGCTGCTACAGACTCATCTGAACACACCTTGAAAGCCTGGCCT MULTIPLE MULTIPLE
106366 I A GTCAGGCCTTAAGGATAAGCAGCAATTTAATATAAACTAAAATTGGT
106366 P G A ATGACGTGGCAGACGTTGGACAACAGATAGGATAATY
106366 P A A CGCGCCGAGGATTGGACAACAGATAGGATAATY
106366 T G A CATCATTATCCTATCTGTTGTCCAACCCAATTTTAGTTTATATTAAATTGCTGCTTATCCTTAAGGCCTGACTT
106366 T A A CATCATTATCCTATCTGTTGTCCAATCCAATTTTAGTTTATATTAAATTGCTGCTTATCCTTAAGGCCTGACTT
106366 IS [GA] CTGAAAGATGAAAAGTCAGGCCTTAAGGATAAGCAGCAATTTAATATAAACTAAAATTGG[GA]TTGGACAACAGATAGGATAATGATGGGATGGGGAGGAGAGTAGGAGGATAGGGACATGGG
106368 I A TCACTCTGGTGTGTTCCCATGGCTTTCTGAAAGTATTAGAT
106368 P C A ATGACGTGGCAGACCTACAGCTCCCAAAGAATGY
106368 P A A CGCGCCGAGGATACAGCTCCCAAAGAATGY
106368 T C A CTCACATTCTTTGGGAGCTGTAGTCTAATACTTTCAGAAAAGCCATGGGAACACACCAGAGTGACT
106368 T A A CTCACA?CTCTTTGGGAGCTGTATTCTAATACTTTCAGAAAAGCCATGGGAACACACCAGAGTGACT
106368 IS [CA] TACTTATTTACTCGAGCAGTCACTCTGGTGTGTTCCCATGGCTTTTCTGAAAGTATTAGA[CA]TACAGCTCCCAAAGAATGTGAGTGCTATTGGAGAAATAAAATACATGGAAATCATATGGC
106371 I S TGATGTTCAGTGATGTATCCATAGACTTCTCTCCAGAAGAGTGGT
106371 P C S ATGACGTGGCAGACGAATACCTGGACTTGGAACY
106371 P G S CGCGCCGAGGCAATACCTGGACTTGGAACY
106371 T C S TTTTGTTCCAAGTCCAGGTATTCCCACTCTTCTGGAGAGAAGTCTATGGATACATCACTGAACATCACT
106371 T G S TTTTGTTCCAAGTCCAGGTATTGCCACTCTTCTGGAGAGAAGTCTATGGATACATCACTGAACATCACT
106371 IS [CG] TGCTGTAGTTCTCCAACATGACATCTCTGTACAAGTCCTTTTGTTCCAAGTCCAGGTATT[CG]CCACTCTTCTGGAGAGAAGTCTATGGATACATCACTGAACATCACTGATCGCTGAAATGA ctg16733 3
106372 I A CACCGAGTCCACACAGGCTGATCTAGGGAGT
106372 P A A CGCGCCGAGAAGGAAAACAAGGCCATGY
106372 P C A ATGACGTGGCAGACGGAAAACAAGGCCATY
106372 T A A ATCTCATGGCCTTGTTTTCCTCTCCCTAGATCAGCCTCTGTGGACTCGGTGCT
106372 T C A ATCTCATGGCCTTGTTTTCCGCTCCCTAGATCAGCCTCTGTGGACTCGGTGCT
106372 IS [AC] TCCTCCTTGGGGTTTACTTGCCAGGAGAAGCACCGAGTCCACAGAGGCTGATCTAGGGAG[AC]GGAAAACAAGGCCATGAGATCAGATGGACCTCAGAAATCCCCCAAATGATTTGAGTTACTG ctg15944 11
106375 I A ATCTGGTGACTGCCACCCGGACAACAA
106375 P C A ATGACGTGGCAGACCACAGTGCTTGGTGAACY
106375 P T A CGCGCCGAGGTACAGTGCTTGGTGAACY
106375 T C A CAGGGTTCACCAAGCACTGTGTGTTGTCCGGGTGGCAGTCACCAGATGC
106375 T T A CAGGGTTCACCAAGCACTGTATGTTGTCCGGGTGGCAGTCACCAGATGC
106375 IS [CT] GCCCAGAGAGCTCTGCGGGCGGGACTGGGCTGGCATCTGGTGACTGCCACCCGGACAACA[CT]ACAGTGCTTGGTGAACCCTGGATGAGGCGTGGGGAAGGGAAGGCGCCAGCAGGGACCGGA ctg22fm4 22
106376 I A CCTGGGTGCTTACTCGGAGAAGCGGTCT
106376 P A A CGCGCCGAGGATAGAAAGGAGAGCGCAY
106376 P G A ATGACGTGGCAGACGTAGAAAGGAGAGCGCAY
106376 T A A CTGCTGCGCTCTCCTTTCTATGACCGCTTCTCCGAGTAAGCACCCAGGAC
106376 T G A CTGCTGCGCTCTCCTTTCTACGACCGCTTCTCCGAGTAAGCACCCAGGAC
106376 IS [AG] CCGCTTGCCAGCCCTCTCCCTGGCTCAGGGTGTCCTGGGTGCTTACTCGGAGAAGCGGTC[AG]TAGAAAGGAGAGCGCAGCAGGTAGTAGAGCAGCAGGATGGTCCGGCGCCGCAGCTCCCGC ctg22fm4 22
106377 I A GACATGGTCAGGGGCCAGGGGCAA
106377 P T A CGCGCCGAGGTGATCTAGGCCCACGY
106377 P C A ATGACGTGGCAGACCGATCTAGGCCCACGY
106377 T T A CTTCCGTGGGGCCTAGATCATGCCCCTGGCCCTGACCATGTCCT
106377 T C A CTTCCGTGGGGCCTAGATCGTGCCCCTGGCCCTGACCATGTCCT
106377 IS [TC] TTCTGTCACTCAGGAGGCTCAGGCTGGGAGGCAGGGAGGACATGGTCAGGGCCAGGGGCA[TC]GATCTAGGCCCACGCAAGGGGAGGAAGCCATGGGCTGGGTGTCCAGAGGGGCAGCAACAGG MULTIPLE MULTIPLE
106378 I A GGGCCCGTCCCGCTTGCGT
106378 P C A CGCGCCGAGGCTGCTGGGCCCTAGY
106378 P G A ATGACGTGGGCAGACGTGCTGGGCCCTAGY
106378 T C A CTGTCT/GGGCCCAGCAGCGCAAGCGGGACGGGCCCGA
106378 T G A CTGTCTAGGGCCCAGCACCGCAAGCGGGACGGGCCCGA
106378 IS [CG] CTTGGGTCATAGGTGTGCATCATAGTAATACTCGGCAAGGTCGGGCCCGTCCCGCTTGCG[CG]TGCTGGGCCCTAGACAGCAGAGGGGTCGAGGCCCTCGCGCCTTGGGTGCTTGGGGCAGGATG MULTIPLE MULTIPLE
106380 I S TGACCTAGATGGTAAGAATAACAATTGGCAAGACTGGAACACAT
106380 P T S CGCGCCGAGGATAGATACTAGCTGTAGTCAAATGY
106380 P C S ATGACGTGGCAGACGTAGATACTAGCTGTAGTCAAATY
106380 T T S GACTCATTTGACTACAGCTAGTATCTATTGTGTTCCAGTCTTGCCAATTGTTATTCTTACCATCTAGGTCACT
106380 T C S GACTCATTTGACTACAGCTAGTATCTACTGTGTTCCAGTCTTGCCAATTGTTATTCTTACCATCTAGGTCACT
106380 IS [TC] CATATCCCACCCCAAGTCTGTGGCTTTCCAGTTTGACTCATTTGACTACAGCTAGTATCTA[TC]TGTGTTCCAGTCTTGCCAATTGTTATTCTTACCATCTAGGTCACTTTCAAAAGTTTCAGC MULTIPLE 22
106383 I S CTCTCCACGTTTGCTTTCTGGAGGGTGAGTGT
106383 P C S ATGACGTGGCAGACGGGATGCAGATGGGTGY
106383 P T S CGCGCCGAGGAGGATGCAGATGGGTGY
106383 T C S AAATCACCCATCTGCATCCTCACTCACCCTCCAGAAAGCAAACGTGGAGAGCT
106383 T T S AAATCACCCATCTGCATCCTCACTCACCCTCCAGAAAGCAAACGTGGAGAGCT

FIGURE 129G

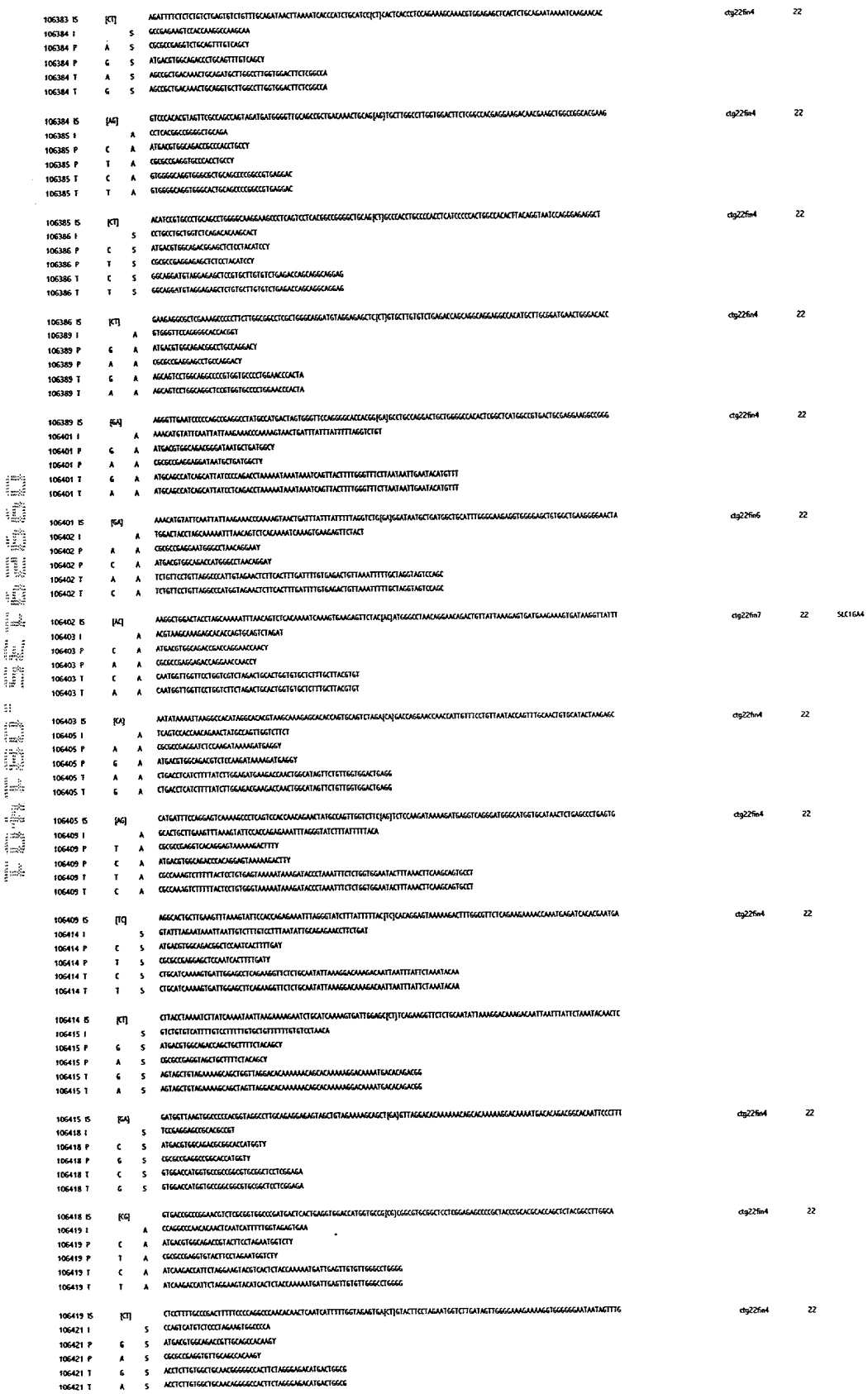

106383 IS [CT] AGATTTTCTCTCTGTCTGAGTGTCTGTTTGCAGATAACTTAAAATCACCCATCTGCATCCC[CT]CACTCACCCTCCAGAAAAGCAAACGTGGAGAGCTCACTCTGCAGAATAAAATCAAGAACAC ctg22fin4 22
106384 I S GCCGAGAAGTCCACCAAGGCCAAGCAA
106384 P A S CGCGCCGAGGTCTGCAGTTTGTCAGCY
106384 P G S ATGACGTGGCAGACCCTGCAGTTTGTCAGCY
106384 T A S AGCCGCTGACAAACTGCAGATGCTTGGCCTTGGTGGACTTCTCTCGGCCA
106384 T G S AGCCGCTGACAAACTGCAGGTGCTTGGCCTTGGTGGACTTCTCTCGGCCA
106384 IS [AG] GTCCCACACGTAGTTCGCCAGCCAGTAGATGATGGGGTTGCAGCCGCTGACAAACTGCAG[AG]TGCTTGGCCTTGGTGGACTTCTCGGCCACGAGGAAGACAACGAAGCTGGCCGGCACGAG ctg22fin4 22
106385 I A CCTCACGGCCGGGGCTGCAGA
106385 P C A ATGACGTGGCAGACCTGCAGTTTGTCAGCY
106385 P T A CGCGCCGAGGTGCCCACCTGCCY
106385 T C A GTGGGGCAGGTGGGCGCTGCAGCCCCGGCCGTGAGGAC
106385 T T A GTGGGGCAGGTGGGCACTGCAGCCCCGGCCGTGAGGAC
106385 IS [CT] ACATCCGTGCCCTGCAGCCTGGGGCAAGAAGCCTCAGTCCTCACGGCCGGGGCTGCAG[CT]GCCCACCTGCCCCACCTCATCCCCCACTGGCCACACTTACAGGTAATCCAGGGAGAGGCT ctg22fin4 22
106386 I S CCTGCCTGCTGGTCTCAGACACAAGCACT
106386 P C S ATGACGTGGCAGACGCAGCTCTCCTACATCCY
106386 P T S CGCGCCGAGGAGAGCTCTCCTACATCCY
106386 T C S GGCAGGATGTAGCAGAGCTCCGTGCTTGTGTCTCAGACCAGCAGGCAGGAG
106386 T T S GGCAGGATGTAGCAGAGCTCYGTGCTTGTGTCTCAGACCAGCAGGCAGGAG
106386 IS [CT] GAAGAGGGGCTCGAAAGCCCCCTTCTTGGCGGCCTCGCTGGGGCAGGATGTAGGAGAGCTC[CT]GTGCTTGTGTCTGAGACCAGCAGGCAGGAGGGCCACATGCTTGCGGATCAACTGGGACACC ctg22fin4 22
106389 I A GTGGGTTCCAGGGGCACCACGGT
106389 P G A ATGACGTGGCAGACGGCTGCCAGGACY
106389 P A A CGCGCCCAGGAGCCTGCCAGGACY
106389 T G A AGCAGTCCTGGCAGGCCCCGTGGTGCCCCTGGAACCCACTA
106389 T A A AGCAGTCCTGGCAGGCTCCGTGGTGCCCCTGGAACCCACTA
106389 IS [GA] AGGGTTGAATCCCCCAGCCGCAGGCCTATGCCATGACTAGTGGGTTCCAGGGGCACCACGG[GA]GCCTGCCAGGACTGCTGGGGCCACACTCGGCTCATGGCCGTGACTGCGAGGAAGGCCGGG ctg22fin4 22
106401 I A AAACATGTATTCAATTATTAAGAAACCCAAAAGTAACTGATTTATTTATTTTTAGGTCTGT
106401 P G A ATGACGTGGCAGACGGGATAATGCTGATGGCY
106401 P A A CGCGCCCAGGAGGATAATGCTGATGGCTY
106401 T G A ATGCAGCCATCAGCATTATCCCCAGACCTAAAAATAAATAAATCAGTTACTTTTGGGTTTCTTAATAATTGAATACATGTTT
106401 T A A ATGCAGCCATCAGCATTATCCTCAGACCTAAAAATAAATAAATCAGTTACTTTTGGGTTTCTTAATAATTGAATACATGTTT
106401 IS [GA] AAACATGTATTCAATTATTAAGAAACCCAAAAGTAACTGATTTATTTATTTTTAGGTCTG[GA]GGATAATGCTGATGGCTGCATTTGGGGAAGAGGTGGGGAGCTGTGGCTGAAGGGGAACTA ctg22fin6 22
106402 I A TGGACTACCTAGCAAAAATTTAACAGTCTCACAAAATCAAAGTGAAGAGTTCTACT
106402 P A A CGCGCCGAGGAATGGGCCTAACAGGAAY
106402 P C A ATGACGTGGCAGACCATGGGCCTAACAGGAY
106402 T A A TCTGTTCCTGTTAGGCCCATTGTAGAACTCTTCACTTTGATTTTGTGAGACTGTTAAATTTTTGCTAGGTAGTCCAGC
106402 T C A TCTGTTCCTGTTAGGCCCATGGTAGAACTCTTCACTTTGATTTTGTGAGACTGTTAAATTTTTGCTAGGTAGTCCAGC
106402 IS [AC] AAGGCTGGACTACCTAGCAAAAATTTAACAGTCTCACAAAATCAAAGTGAAGAGTTCTAC[AC]ATGGGCCTAACAGGAACAGACTGTTATTAAAGAGTGATGAAGAAAGTGATAAGGTTATTT ctg22fin7 22 SLC16A4
106403 I A ACGTAAGCAAAGAGCACACCAGTGCAGTCTAGAT
106403 P C A ATGACGTGGCAGACCGACCAGGAACCAACY
106403 P A A CGCGCCCGAGGAGACAGGAACCAACCY
106403 T C A CAATGGTTGGTTCCTGGTCGTCTAGACTGCACTGGTGTGCTCTTTGCTTACGTGT
106403 T A A CAATGGTTGGTTCCTGGTCTTCTAGACTGCACTGGTGTGCTCTTTGCTTACGTGT
106403 IS [CA] AATATAAAATTAAGGCCACATAGGCACACGTAAGCAAAGAGCACACCAGTGCAGTCTAGA[CA]GACCAGGAACCAACCATTGTTCCTGTTAATACCAGTTTGCAACTGTGCATACTAAGAGC ctg22fin4 22
106405 I A TCAGTCCACCAACAGAACTATGCCAGTTGGTCTTCT
106405 P A A CGCGCCGAGGATCTCCAAGATAAAAGATGAGGY
106405 P G A ATGACGTGGCAGACGTCTCTCAAGATAAAAGATGAGGY
106405 T A A CTGACCTCATCTTTTATCTTGGAGATGAAGACCAACTGGCATAGTTCTGTTGGTGGACTGAGG
106405 T G A CTGACCTCATCTTTTATCTTGGAGACGAAGACCAACTGGCATAGTTCTGTTGGTGGACTGAGG
106405 IS [AG] CATGATTTCCAGGAGTCAAAAGCCCTCAGTCCACCAACAGAACTATGCCAGTTGGTCTTC[AG]TCTCCAAGATAAAAGATGAGGTCAGGGATGGGCATGGTGCATAACTCTGAGCCCTGAGTG ctg22fin4 22
106409 I A GCACTGCTTGAAGTTTAAAGTATTCCACCAGAGAAATTTAGGGTATCTTTATTTTTACA
106409 P T A CGCGCCGAGGTCACAGGAGTAAAAAGACTTTY
106409 P C A ATGACGTGGCAGACCCACAGGAGTAAAAGACTTY
106409 T T A CGCCAAAGTCTTTTTACTCCTGTGAGTAAAAATAAAGATACCCTAAATTTCTCTGGTGGAATACTTTAAACTTCAAGCAGTGCCT
106409 T C A CGCCAAAGTCTTTTTACTCCTGTGGGTAAAAATAAAGATACCCTAAATTTCTCTGGTGGAATACTTTAAACTTCAAGCAGTGCCT
106409 IS [TC] AGGCACTGCTTGAAGTTTAAAGTATTCCACCAGAGAAATTTAGGGTATCTTTATTTTTAC[TC]CACAGGAGTAAAAAGACTTTGGGGTTCTCAGAAGAAAACCAAATGAGATCACACGAATGA ctg22fin4 22
106414 I S GTATTTAGAATAAATTAATTGTCTTTGTCCTTTAATATTGCAGAGAAACCTTCTGAT
106414 P C S ATGACGTGGCAGACGGCTCCAATCACTTTTGAY
106414 P T S CGCGCCGAGGAGCTCCAATCACTTTTGATY
106414 T C S CTGCATCAAAAGTGATTGGAGCCTCAGAAGGTTCTCTGCAATATTAAAGGACAAAGACAATTAATTTATTCTAAATACAA
106414 T T S CTGCATCAAAAGTGATTGGAGCTTCAGAAGGTTCTCTGCAATATTAAAGGACAAAGACAATTAATTTATTCTAAATACAA
106414 IS [CT] CTTACCTAAAATCTTATCAAAATAATTAAGAAAAGAATCTGCATCAAAAGTGATTGGAGC[CT]TCAGAAGGTTCTCTGCAATATTAAAGGACAAAGACAATTAATTTATTCTAAATACAACTC
106415 I S GTCTGTGTCATTTTGTCCTTTTTGTGCTGTTTTTTGTGTCTAACA
106415 P G S ATGACGTGGCAGACCAGCTGCTTTTCTACAGCY
106415 P A S CGCGCCGAGGTAGCTGCTTTTCTACAGCY
106415 T G S AGTAGCTGTAGAAAAGCAGCTGGTTAGGACACAAAAAACAGCACAAAAGGACAAAATGACACAGACGG
106415 T A S AGTAGCTGTAGAAAAGCAGCTAGTTAGGACACAAAAAACAGCACAAAAGGACAAAATGACACAGACGG
106415 IS [GA] GATGGTTAAGTGGCCCCCACGGTAGGCCTTGCAGAGGAGAGTAGCTGTAGAAAAGCAGCT[GA]GTTAGGACACAAAAAACAGCACAAAAGCACAAATGACACAGACGGCACAATTCCCTTT ctg22fin4 22
106418 I S TCCCAGGAGCCGCACGCCGT
106418 P C S ATGACGTGGCAGACGCGGCACCATGGTY
106418 P G S CGCGCCGAGGCCGGCACCATGGTY
106418 T C S GTGGACCATGGTGCCGCCGGCGTGCGGCTCCTCGGAGA
106418 T G S GTGGACCATGGTGCCGCCGGCGTGCGGCTCCTCGGAGA
106418 IS [CG] GTGACCGCCCGGAACGTCTCGCGGTGGCCCGATGACTCACTGAGGTGGACCATGGTGCCG[CG]CGGCGTGCGGCTCCTGGAGAGACCCCGCTACCCGCACGCACCAGCTCTACGGCCTTGGCA ctg22fin4 22
106419 I A CCAGGCCCAACACAACTCAATCATTTTTGGTAGAGTGAA
106419 P C A ATGACGTGGCAGACCGTACTTCCTAGAATGGTCTY
106419 P T A CGCGCCGAGGTGTACTTCCTAGAATGGTCTY
106419 T C A ATCAAGACCATTCTAGGAAGTACGTCACTCTACCAAAAATGATTGAGTTGTGTTGGGCCTGGGG
106419 T T A ATCAAGACCATTCTAGGAAGTACATCACTCTACCAAAAATGATTGAGTTGTGTTGGGCCTGGGG
106419 IS [CT] CTCCTTTTGCCCGACTTTTCCCCAGGCCCAACACAACTCAATCATTTTTGGTAGAGTGAA[CT]GTACTTCCTAGAATGGTCTTGATAGTTGGGCAAAGAAAAGGTGGGGGGAATAATAGTTTG ctg22fin4 22
106421 I S CCAGTCATGTCTCCCTAGAAGTGGCCCCA
106421 P G S ATGACGTGGCAGACCGTTGCAGCCACAAGY
106421 P A S CGCGCCGAGGTGTTGCAGCCACAAGY
106421 T G S ACCTCTTGTGGCTGCAACGGGGGCCACTTCTAGGGAGACATGACTGGCG
106421 T A S ACCTCTTGTGGCTGCAACAGGGGCCACTTCTAGGGAGACATGACTGGCG

FIGURE 129G

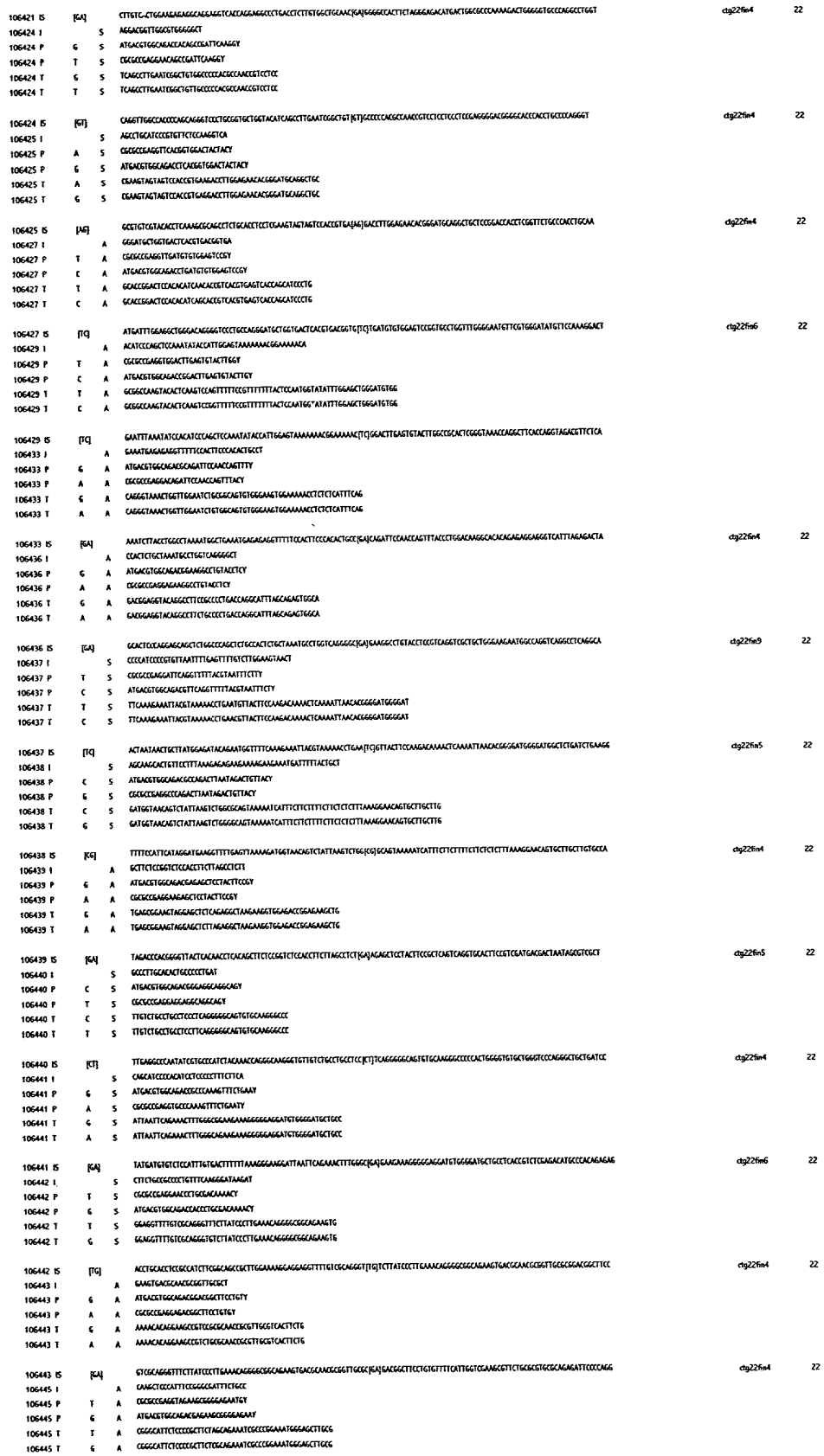

106421 IS [GA] CTTGTC-CTGGAAGAAGAGGCAGGAAGTCACCAGAAGGCCCTGACCTCTTGTGGCTGCAAC[GA]GGGGCCACTTCTAGGGAGACATGACTGACGCCCAAAAGACTGGGGGTGCCCAGGCCTGGT ctg22fin4 22
106424 I S AGGACGGTTGGCGTGGGGCT
106424 P G S ATGACGTGGCAGACACAGCCGATTCAAGGY
106424 P T S CGCGCCGAGGAACAGCCGATTCAAGGY
106424 T G S TCAGCCTTGAATCGGCTGTGGCCCCACGCCAACCGTCCTCC
106424 T T S TCAGCCTTGAATCGGCTGTTGCCCCCACGCCAACCGTCCTCC
106424 IS [GT] CAGGTTGGCCACCCCAGCAGGGTCCCTGCGGTGCTGGTACATCAGCCTTGAATCGGCTGT[GT]GCCCCCAGCGCAACCGTCCTCCCCTCCCGAGGGGACGGGGCCACCCACCTGCCCCAGGGT ctg22fin4 22
106425 I S AGCCTGCATCCCGTGTTCTCCAAGGTCA
106425 P A S CGCGCCGAGGTTCACGGTGGACTACTACY
106425 P G S ATGACGTGGCAGACCTCACGGTGGACTACTACY
106425 T A S CGAAGTAGTAGTCCACCGTGAAGACCTTGGAGAACACGGGATGCAGGCTGC
106425 T G S CGAAGTAGTAGTCCACCGTGAGGACCTTGGAGAACACGGGATGCAGGCTGC
106425 IS [AG] GCGTGTCGTACACCTCAAAGCGCAGCCTCTGCACCTCCTCGAAGTAGTAGTCCACCGTGA[AG]GACCTTGGAGAACACGGGATGCAGGCTGCTCCGGACACCTCGGTTCTGCCCACCTGCAA ctg22fin4 22
106427 I A GGGATGCTGGTGCACTCACGTGACGGTGA
106427 P T A CGCGCCGAGGTTGATGTGTGGAGTCCGY
106427 P C A ATGACGTGGCAGACCTGATGTGTGGAGTCCGY
106427 T T A GCACCGGACTCCACACATCAACACCGTCACGTGAGTCACCAGCATCCCTG
106427 T C A GCACCGGACTCCACACATCAGCACCGTCACGTGAGTCACCAGCATCCCTG
106427 IS [TC] ATGATTTGGAGGCTGGGACAGGGGTCCCTGCCACGGATGCTGGTGACTCACGTGACGGTG[TC]TGATGTGTGGAGTCCGGTGCCTGGTTTGGGGAATGTTCGTGGGATATGTTCCAAAGGACT ctg22fin6 22
106429 I A ACATCCCAGCTCCAAATATACCATTGGAGTAAAAAACGGAAAAACA
106429 P T A CGCGCCGAGGTTGACTTGAGTGTACTTGGY
106429 P C A ATGACGTGGCAGACCGGACTTGAGTGTACTTGY
106429 T T A GCGGCCAAGTACACTCAAGTCCAGTTTTTCCGTTTTTTTACTCCAATGGTATATTTGGAGCTGGGATGTGG
106429 T C A GCGGCCAAGTACACTCAAGTCCGGTTTTTCCGTTTTTTTACTCCAATGG*ATATTTGGAGCTGGGATGTGG
106429 IS [TC] GAATTTAAATATCCACATCCCAGCTCCAAATATACCATTGGAGTAAAAAACGGAAAAACT[TC]GGACTTGAGTGTACTTGGCCGCACTCGGGTAAACCAGGCTTCACCAGGTAGACGTTCTCA
106433 I A GAAATGAGAGAAGGTTTTTCCACTTCCCACACTGCCT
106433 P G A ATGACGTGGCAGACGCAGATTCCAACCAGTTTY
106433 P A A CGCGCCGAGGACAGATTCCAACCAGTTTACY
106433 T G A CAGGGTAAACTGGTTGGAATCTGCGGCAGTGTGGGAAGTGGAAAAACCTCTCTCATTTCAG
106433 T A A CAGGGTAAACTGGTTGGAATCTGTGGCAGTGTGGGAAGTGGAAAAACCTCTCTCATTTCAG
106433 IS [GA] AAATCTTACCTGGCCTAAAATGGCTGAAATGAGAGAGGTTTTTCCACTTCCCCACACTGCC[GA]CAGATTCCAACCAGTTTACCCTGGACAAGGCACACAGAGAGGAGGGTCATTTAGAGACTA ctg22fin4 22
106436 I A CCACTCTGCTAAATGCCTGGTCAGGGGCT
106436 P G A ATGACGTGGCAGACGGAAGGCCTGTACCTCY
106436 P A A CGCGCCGAGGAGAAGGCCTGTACCTCY
106436 T G A GACGGAGGTACAGGCCTTCCGCCCCTGACCAGGCATTTAGCAGAGTGGCA
106436 T A A GACGGAGGTACAGGCCTTCTGCCCCTGACCAGGCATTTAGCAGAGTGGCA
106436 IS [GA] GCACTCCCAGGAGCAGCTCTGGCCCAGCTCTGCCACTCTGCTAAATGCCTGGTCAGGGGC[GA]GAAGGCCTGTACCTCCGTCAGGTCGCTGCTGGGAAGAATGGCCAGGTCAGGCCTCAGGCA ctg22fin9 22
106437 I S CCCCATCCCCGTGTTAATTTTGAGTTTTGTCTTGGAAGTAACT
106437 P T S CGCGCCGAGGATTCAGGTTTTTACGTAATTTCTTY
106437 P C S ATGACGTGGCAGACGTTCAGGTTTTTACGTAATTTCTY
106437 T T S TTCAAAGAAATTACGTAAAAACCTGAATGTTACTTCCAAGACAAAACTCAAAATTAACACGGGGATGGGGAT
106437 T C S TTCAAAGAAATTACGTAAAAACCTGAACGTTACTTCCAAGACAAAACTCAAAATTAACACGGGGATGGGGAT
106437 IS [TC] ACTAATAACTGCTTATGGAGATACAGAATGGTTTTCAAAGAAATTACGTAAAAACCTGAA[TC]GTTACTTCCAAGACAAAACTCAAAATTAACACGGGGATGGGGATGGCTCTGATCTGAAGG ctg22fin5 22
106438 I S AGCAAGCACTGTTCCTTTAAAGACAGAAGAAAAGAAGAAAATGATTTTTACTGCT
106438 P C S ATGACGTGGCAGACGCCAGACTTAATAGACTGTTACY
106438 P G S CGCGCCGAGGCCAGACTTAATAGACTGTTACY
106438 T C S GATGGTAACAGTCTATTAAGTCTGGGGCAGTAAAAATCATTTCTTCTTTTCTTCTCTCTTTAAAGGAACAGTGCTTGCTTG
106438 T G S GATGGTAACAGTCTATTAAGTCTGGGGCAGTAAAAATCATTTCTTCTTTTCTTCTCTCTTTAAAGGAACAGTGCTTGCTTG
106438 IS [CG] TTTTCCATTCATAGGATGAAGGTTTTGAGTTAAAACATGGTAACAGTCTATTAAGTCTGG[CG]GCAGTAAAAATCATTTCTTCTTTTCTTCTCTCTTTAAAGGAACAGTGCTTGCTTGTGCCA ctg22fin4 22
106439 I A GCTTCTCCGGTCTCCACCTTCTTAGCCTCTT
106439 P G A ATGACGTGGCAGACGAGAGCTCCTACTTCCGY
106439 P A A CGCGCCGAGGAAGAAGCTCCTACTTCCGY
106439 T G A TGAGCGGAAGTAGGAGCTCTCAGAGGCTAAGAAGGTGGAGACCGGAGAAGCTG
106439 T A A TGAGCGGAAGTAGGAGCTCTTAGAGGCTAAGAAGGTGGAGACCGGAGAAGCTG
106439 IS [GA] TAGACCCACGGGGTTACTCACAACCTCACAGCTTCTCCGGTCTCCACCTTCTTAGCCTCT[GA]AGAGCTCCTACTTCCGCTCAGTCAGGTGCACTTCCGTCGATGACGACTAATAGCGTCGCT ctg22fin5 22
106440 I S GCCCTTGCACACTGCCCCCTGAT
106440 P C S ATGACGTGGCAGACGGCAGGCAGGCAGY
106440 P T S CGCGCCGAGGAGGAGGCAGGCAGGY
106440 T C S TTGTCTGCCTGCCTCCCTCAGGGGGCAGTGTGCAAGGGCCC
106440 T T S TTGTCTGCCTGCCTCCTTCAGGGGGCAGTGTGCAAGGGCCC
106440 IS [CT] TTGAGGCCCAATATCGTGCCCATCTACAAACCAGGGCAAGGGTGTTGTCTGCCTGCCTCC[CT]TCAGGGGGCAGTGTGCAAGGGCCCCCACTGGGGTGTGCTGGGTCCCAGGGCTGCTGATCC ctg22fin4 22
106441 I S CAGCATCCCCACATCCTCCCCTTTCTTCA
106441 P G S ATGACGTGGCAGACCGCCCAAAGTTTCTGAAY
106441 P A S CGCGCCGAGGTGCCCAAAGTTTCTGAAY
106441 T G S ATTAATTCAGAAACTTTGGGCGGAAGAAAGGGGGAGGATGTGGGGATGCTGCC
106441 T A S ATTAATTCAGAAACTTTGGGCAGAAGAAAGGGGGAGGATGTGGGGATGCTGCC
106441 IS [GA] TATGATGTGTCTCCATTTGTGACTTTTTTAAAGGGAAGGATTAATTCAGAAACTTGGGC[GA]GAAGAAAGGGGCAGGATGTGGGGATGCTGCCTCACCGTCTCGAGACATGCCCACAGAGAG ctg22fin6 22
106442 I S CTTCTGCCGCCCCTGTTTCAAGGGATAAGAT
106442 P T S CGCGCCGAGGAACCTGCGCACAAAACY
106442 P G S ATGACGTGGCAGACCACCTGCGCACAAAACY
106442 T T S GGAGGTTTTGTCGCAGGGTTCTTATCCCTTGAAACAGGGGCGGCAGAAGTG
106442 T G S GGAGGTTTTGTCGCAGGGTGTCTTATCCCTTGAAACAGGGGCGGCAGAAGTG
106442 IS [TG] ACCTGCACCTCGCGCCATCTTCGGCAGCCGCTTGGAAAAGCAGGAGGTTTTGTCGCAGGGT[TG]TCTTATCCCTTGAAACAGGGGCGGCAGAAGTGACGCAACCGCGGTTGCGCGGACGGCTTCC ctg22fin4 22
106443 I A GAAGTGACGCAACGCGGTTGCGCT
106443 P G A ATGACGTGGCAGACGCAGACGCTTCCTGTY
106443 P A A CGCGCCGAGGAGAAGGCTTCCTGTGY
106443 T G A AAAACACAGGAAGCCGTCGCGCAACCGCGTTGCGTCACTTCTG
106443 T A A AAAACACAGGAAGCCGTCTGCGCAACCGCGTTGCGTCACTTCTG
106443 IS [GA] GTCGCAGGGTTTCTTATCCCTTGAAACAGGGGCGGCAGAAGTGACGCAACGCGGTTGCGC[GA]GACGCTTCCTGTGTTTTCATTGGTCGAAGCGTCTCGCGCGTGCGCAGAGATTCCCCAGG ctg22fin4 22
106445 I A CAAGCTCCCATTTCCCGGCCATTTCTGCC
106445 P T A CGCGCCGAGGTAGAAGCGGGGAGAATGY
106445 P G A ATGACGTGGCAGACGAGAAGCGGGGAGAAY
106445 T T A CGGGCATTCTCCCCGCTTCTAGAGAAATCGCCCGAAATGGGAGCTTGCG
106445 T G A CGGGCATTCTCCCCGCTTCTGCGAGAAATCGCCCGAAATGGGAGCTTGCG

FIGURE 129G

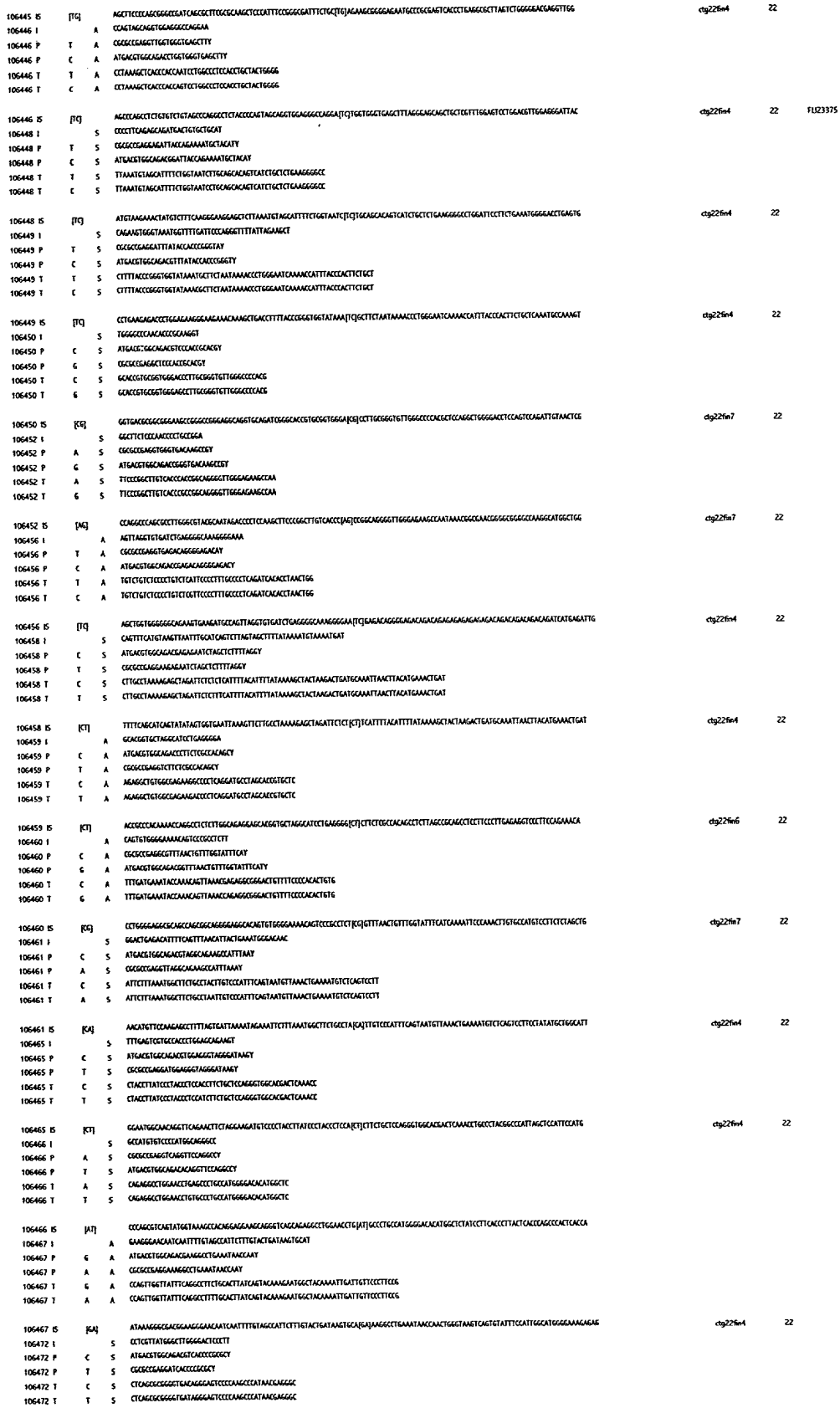

106445 15 [TG] AGCTTCCCCAGCGGGCCGATCAGCGCTTCGCGCAAGCTCCCATTTCCGGGCGATTTCTGCTGJAGAAGCGGGGAGAATGCCCGCGAGTCACCCTGAGGCGCTTAGTCTGGGGGAACGAGGTTGG ctg22fm4 22
106446 1 A CCAGTAGCAGGTGGAGGCCAGGAA
106446 P T A CGGGCCGAGGTTGGTGGGTGAGCTTY
106446 P C A ATGACGTGGCAGACCTGGTGGGTGAGCTTY
106446 T T A CCTAAAGCTCACCCACCAATCCTGGCCCTCCACCTGCTACTGGGG
106446 T C A CCTAAAGCTCACCCACCAGTCCTGGCCCTCCACCTGCTACTGGGG
106446 15 [TC] AGCCCAGCCTCTGTGTCTGTAGCCCAGGCCTCTACCCCAGTAGCAGGTGGAGGGCCAGGATJCTGGTGGGTGAGCTTTAGGCAGCAGCTGCTGGTTTGGAGTCCTGGAGGTTGGAGGGATTAC ctg22fm4 22 FLI23375
106448 1 S CCCCTTCAGAGCAGATGCACTGTGCTGCAT
106448 P T S CGCGCCGAGGAGATTACCAGAAAATGCTACATY
106448 P C S ATGACGTGGCAGACGGATTACCAGAAAATGCTACAY
106448 T T S TTAAATGTAGCATTTTCTGGTAATCTTGCAGCACAGTCATCTGCTCTGAAGGGGCC
106448 T C S TTAAATGTAGCATTTTCTGGTAATCCTGCAGCACAGTCATCTGCTCTGAAGGGGCC
106448 15 [TC] ATGTAAGAAACTATGTCTTTCAAGGGAAGGAGCTCTTAAAJGTAGCATTTTCTGGTAATCJTCJTGCAGCACAGTCATCTGCTCTGAAGGGGCCTGGATTCCTTCTGAAATGGGGAACCTGAGTG ctg22fm4 22
106449 1 S CAGAAGTGGGTAAATGGTTTTGATTCCCAGGGTTTTATTAGAAGCT
106449 P T S CGCGCCGAGGATTTATACCACCCGGGTAY
106449 P C S ATGACGTGGCAGACGTTTATACCACCCGGGTY
106449 T T S CTTTTACCCGGGTGGTATAAATGCTTCTAATAAAACCCTGGGAATCAAAACCATTTACCCACTTCTGCT
106449 T C S CTTTTACCCGGGTGGTATAAAGCTTCTAATAAAACCCTGGGAATCAAAACCATTTACCCACTTCTGCT
106449 15 [TC] CCTGAAGAGACCCTGGAGAAGGGAAGAAACAAGCTGACCTTTACCCGGGTGGTATAAAJTCJGCTTCTAATAAAACCCTGGGAATCAAAACCATTTACCCACTTCTGCTCAAATGCCAAAGT ctg22fm4 22
106450 1 S TGGGCCCCAACACCCGCAAGGT
106450 P C S ATGACG*GGCAGACGTCCCACCGCACGY
106450 P G S CGCGCCGAGGCTCCCACCGCACGY
106450 T C S GCACCGTGCGGTGGGACCCTTGCGGGTGTTGGGCCCCACG
106450 T G S GCACCGTGCGGTGGGAGCCTTGCGGGTGTTGGGCCCCACG
106450 15 [CG] GGTGACGCGCCGGGAAGCCGGGCCGGGAGGCAGGTGCAGATCGGGCACCGTGCGGTGGGA[CG]CCTTGCGGGGTGTTGGGCCCCACGCTCCAGGCTGGGGAACCTCCAGTCCAGATTGTAACTCG ctg22fm7 22
106452 1 S GGCTTCTCCCAACCCCTGCCGGA
106452 P A S CGCGCCGAGGTGGGTGACAAGCCGY
106452 P G S ATGACGTGGCAGACCGGGTGACAAGCCGY
106452 T A S TTCCCGGCTTGTCACCCACCGGCAGGGGTTGGGAGAAGCCAA
106452 T G S TTCCCGGCTTGTCACCCGCCGGCAGGGGTTGGGAGAAGCCAA
106452 15 [AG] CCAGGCCCAGCGCCTTGGGCGTACGCAATAGACCCCTCCAAGCTTCCCGGCTTGTCACCC[AG]CCGGCAGGGGTTGGGAGAAGCCAATAAACGGCGAACGGGCGGGCGGCAAGGCATGGCTGG ctg22fm7 22
106456 1 A AGTTAGGTGTGATCTGAGGGGCAAGGGGAAA
106456 P T A CGCGCCGAGGTGAGACAGGGGAGACAY
106456 P C A ATGACGTGGCAGACCGAGACAGGGGAGACY
106456 T T A TGTCTGTCTCCCCTGTCTCATTCCCCTTTGCCCCTCAGATCACACCTAACTGG
106456 T C A TGTCTGTCTCCCCTGTCTCGTTCCCCTTTGCCCCTCAGATCACACCTAACTGG
106456 15 [TC] AGCTGGTGGGGGGCAGAAGTGAAGATGCCAGTTAGGTGTGATCTGAGGGGCAAAGGGGAA[TC]GAGACAGGGGAGACAGACAGACAGAGAGAGACAGACAGACAGACAGATCATGAGATTG ctg22fm4 22
106458 1 S CAGTTTCATGTAAGTTAATTTGCATCAGTCTTAGTAGCTTTATAAAATGTAAAATGAT
106458 P C S ATCACGTGGCAGACAGAGAATCTAGCTCTTTAGGY
106458 P T S CGCGCCGAGGAAGAAATCTAGCTCTTTTAGGY
106458 T C S CTTGCCTAAAAGAGCTAGATTCTCTCTCATTTTACATTTTATAAAAGCTACTAAGACTGATGCAAATTAACTTACATGAAACTGAT
106458 T T S CTTGCCTAAAAGAGCTAGATTCTCTTTCATTTTACATTTTATAAAAGCTACTAAGACTGATGCAAATTAACTTACATGAAACTGAT
106458 15 [CT] TTTTCAGCATCAGTATATAGTGGTGAATTAAAGTTCTTGCCTAAAAGAGCTAGATTCTCT[CT]TCATTTTACATTTTATAAAAGCTACTAAGACTGATGCAAATTAACTTACATGAAACTGAT ctg22fm4 22
106459 1 A GCACGGTGCTAGGCATCCTGAGGGGA
106459 P C A ATGACGTGGCAGACCCTCCTCGCCACAGCY
106459 P T A CGCGCCGAGGTCTTCTCGCCACAGCY
106459 T C A AGAGGCTGTGGCGAGAAGACCCTCAGGATGCCTAGCACCGTGCTC
106459 T T A AGAGGCTGTGGCGAGAAGACCCTCAGGATGCCTAGCACCGTGCTC
106459 15 [CT] ACCGCCCACAAAACCAGGCCTCTCTTGGCAGAGAGCACGGTGCTAGGCATCCTGAGGGG[CT]CTTCTCGCCACAGCCTCTTAGCCGCGAGCCTCCTTCCCTTGAGAGGTCCCTTCCAGAAACA ctg22fm6 22
106460 1 A CAGTGTGGGGGAAAACAGTCCCGCCTCTT
106460 P C A CGCGCCGAGGCGTTTAACTGTTTGGTATTTCAY
106460 P G A ATGACGTGGCAGACGGTTAACTGTTGGTATTTCATY
106460 T C A TTTGATGAAATACCAAACAGTTAAACGAGAGGCGGGACTGTTTTCCCCACACTGTG
106460 T G A TTTGATGAAATACCAAACAGTTAAACGAGAGGCGGGACTGTTTTCCCCACACTGTG
106460 15 [CG] CCTGGGGGAGGCGCAGCCAGCGGCAGGGGAGGCACAGTGTGGGGAAAACAGTCCCGCCTCT[CG]GTTTAACTGTTTGGTATTTCATCAAAATTCCCAAACTTGTGCCATGTCCTTCTCTAGCTG ctg22fm7 22
106461 1 S GGACTGAGACATTTTCAGTTTAACATTACTGAAATGGGACAAC
106461 P C S ATGACGTGGCAGAGTAGGCAGAAGCCATTTAAY
106461 P A S CGCGCCGAGGTTAGGCAGAAGCCATTTAAAY
106461 T C S ATTCTTTAAATGGCTTCTGCCTAACTTGTCCCATTTCAGTAATGTTAAACTGAAAATGTCTCAGTCCTT
106461 T A S ATTCTTTAAATGGCTTCTGCCTAATTGTCCCATTTCAGTAATGTTAAACTGAAAATGTCTCAGTCCTT
106461 15 [CA] AACATGTTCCAAGAGCCTTTTAGTGATTAAAATAGAAATTCTTTAAATGGCTTCTGCCTA[CA]TTGTCCCATTTCAGTAATGTTAAACTGAAAATGTCTCAGTCCTTCTCATATGCTGGCATT ctg22fm4 22
106465 1 S TTTGAGTCGTGCCCACCCTGGAGCAGAAGT
106465 P C S ATGACGTGGCAGACGTGGAGGGTAGGGATAAGY
106465 P T S CGCGCCGAGGATGGAGGGTAGGGATAAGY
106465 T C S CTACCTTATCCCTACCCTCCCACCTTCTGCTCCAGGGTGGCAGGACTCAAACC
106465 T T S CTACCTTATCCCTACCCTCCATCTTCTGCTCCAGGGTGGCACGACTCAAACC
106465 15 [CT] GGAATGGCAACAGGTTCAGAACTTCTAGGAAGATGTCCCCTACCTTATCCCTACCCTCCA[CT]CTTCTGCTCCAGGGTGGCACGACTCAAACCTGCCCTACGGCCCATTAGCTCCATTCCATG ctg22fm4 22
106466 1 S GCCATGTGTCCCCATGGCAGGGCC
106466 P A S CGCGCCGAGGTCAGGTTCCAGGCCY
106466 P T S ATGACGTGGCAGACACAGGTTCCAGGCCY
106466 T A S CAGAGGCCTGGAACCTGAGCCCTGCCATGGGGACACATGGCTC
106466 T T S CAGAGGCCTGGAACCTGTGCCCTGCCATGGGGACACATGGCTC
106466 15 [AT] CCCAGCGTCAGTATGGTAAAGCCACAGGAGAAAGCAGGGTCAGCAGAGGCCTGGAACCTG[AT]GCCCTGCCATGGGGACACATGGCTCTATCCTTCACCCTTACTCACCCAGCCCACTCACCA
106467 1 A GAAGGGAACAATCAATTTTGTAGCCATTCTTTGTACTGATAAGTGCAT
106467 P G A ATGACGTGGCAGACGAAGGCCTGAAATAACCAAY
106467 P A A CGCGCCGAGGAAAGGCCTGAAATAACCAAY
106467 T G A CCAGTTGGTTATTTCAGGCCTTCTGCACTTATCAGTACAAAGAATGGCTACAAAATTGATTGTTCCCTTCCG
106467 T A A CCAGTTGGTTATTTCAGGCCTTTGCACTTATCAGTACAAAGAATGGCTACAAAATTGATTGTTCCCTTCCG
106467 15 [GA] ATAAAGGGCGACGGAAGGGAACAATCAATTTTGTAGCCATTCTTTGTACTGATAAGTGCA[GA]AAGGCCTGAAATAACCAACTGGGTAAGTCAGTGTATTTCCATTGGCATGGGGAAAGAGAG ctg22fm4 22
106472 1 S CCTGTTATGGGCTTGGGGACTCCCTT
106472 P C S ATGACGTGGCAGACGTCACCCCGGCY
106472 P T S CGCGCCGAGGATCACCCCGGCY
106472 T C S CTCAGCGCGGGGTGACAGGGAGTCCCCAAGCCCATAACGAGGGC
106472 T T S CTCAGCGCGGGGTGATAGGGAGTCCCCAAGCCCATAACGAGGGC

FIGURE 129G

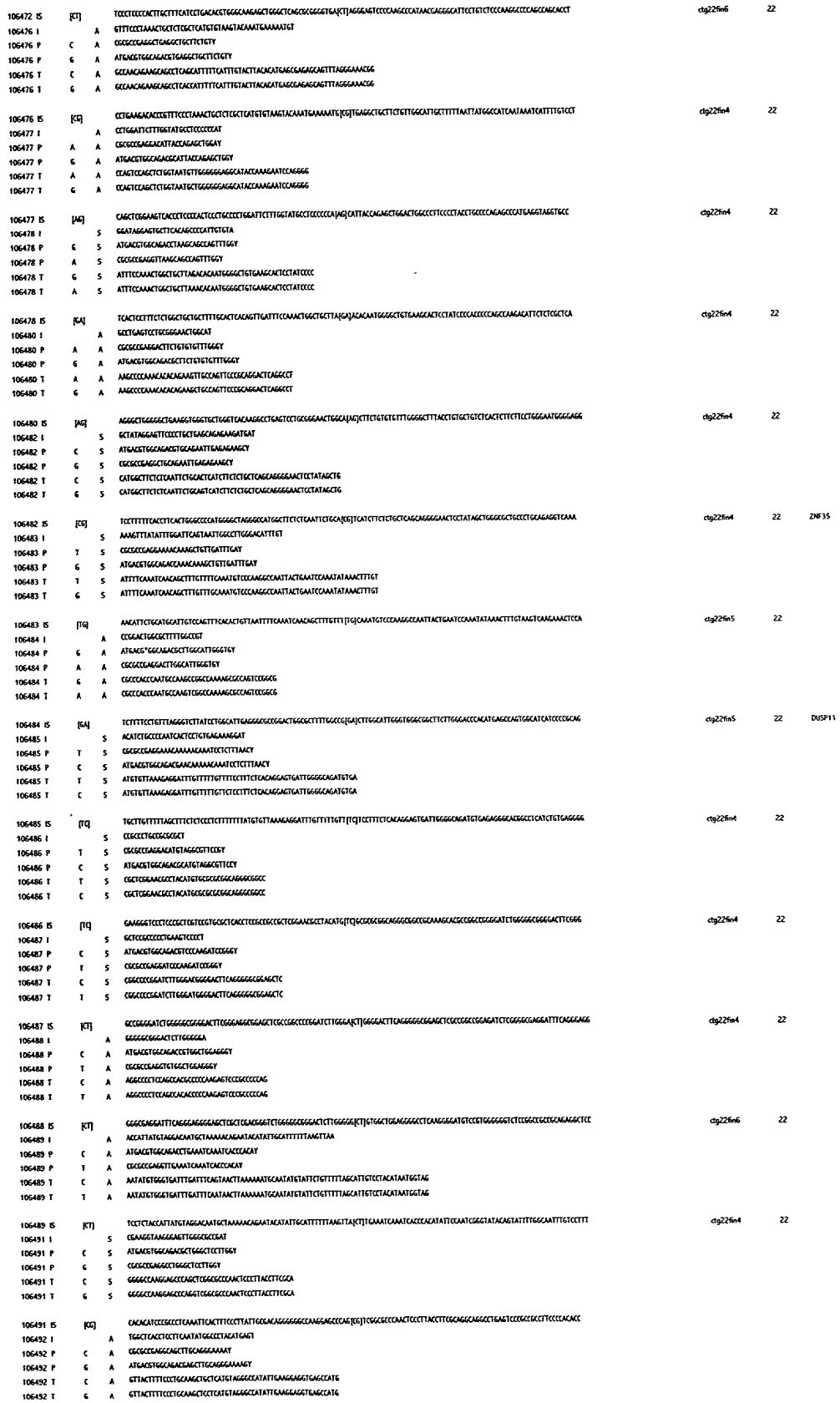

106472 IS [CT] TCCCTCCCCACTTGCTTTCATCCTGACACGTGGGCAAGAGCTGGGCTCAGCGCGGGGTGA[CT]AGGGAGTCCCCAAGCCCATAACGAGGGCATTCCTGTCTCCCCAAGCCCCAGCCAGCACCT ctg22fin6 22
106476 I A GTTTCCCTAAACTGCTCTCGCTCATGTGTAAGTACAAATGAAAAATGT
106476 P C A CGCGCCGAGGCTGAGGCTGCTCTGTY
106476 P G A ATGAGTGGCAGACGTGAGGCTGCTTCTGTY
106476 T C A GCCAACAGAAGCAGCCTCAGCATTTTTCATTTGTACTTACACATGAGCGAGAGCAGTTTAGGGAAACGG
106476 T G A GCCAACAGAAGCAGCCTCACCATTTTTCATTTGTACTTACACATGAGCGAGAGCAGTTTAGGGAAACGG
106476 IS [CG] CCTGAAGACACCCGTTTCCCTAAACTGCTCTCGCTCATGTGTAAGTACAAATGAAAAATG[CG]TGAGGCTGCTTCTGTTGGCATTGCTTTTTAATTATGGCCATCAATAAATCATTTTGTCCT ctg22fin4 22
106477 I A CCTGGATTCTTTGGTATGCCTCCCCCCAT
106477 P A A CGCGCCGAGGACATTACCAGAGCTGGAY
106477 P G A ATGACGTGGCAGACGCATTACCAGAGCTGGY
106477 T A A CCAGTCCAGCTCTGGTAATGTTGGGGGGAGGCATACCAAAGAATCCNGGGG
106477 T G A CCAGTCCAGCTCTGGTAATGCTGGGGGGAGGCATACCAAAGAATCCAGGGG
106477 IS [AG] CAGCTGGGAAGTCACCCTCCCCACTCCCTGCCCCTGGATTCTTTGGTATGCCTCCCCCA[AG]CATTACCAGAGCTGGACTGGCCCTTCCCCTACCTGCCCCAGAGCCCATGAGGTAGGTGCC ctg22fin4 22
106478 I S GGATAGGAGTGCTTCACAGCCCCATTGTGTA
106478 P G S ATGACGTGGCAGACCTAAGCAGCCAGTTTGGY
106478 P A S CGCGCCGAGGTTAAGCAGCCAGTTTGGY
106478 T G S ATTTCCAAACTGGCTGCTTAAACACAATGGGGCTGTGAAGCACTCCTATCCCC
106478 T A S ATTTCCAAACTGGCTGCTTAAACACAATGGGGCTGTGAAGCACTCCTATCCCC
106478 IS [GA] TCACTCCTTCTCTGGCTGCTGCTTTTGCACTCACAGTTGATTTCCAAACTGGCTGCTTA[GA]ACACAATGGGGCTGTGAAGCACTCCTATCCCCACCCCAGCCAAGACATTCTCTCGCTCA ctg22fin4 22
106480 I A GCCTGAGTCCTGCGGGAACTGGCAT
106480 P A A CGCGCCGAGGACTCTGTGTGTTTGGGY
106480 P G A ATGACGTGGCAGACGCTTCTGTGTGTTTGGGY
106480 T A A AAGCCCCAAACACACAGAAGTTGCCAGTTCCCGCAGGACTCAGGCCT
106480 T G A AAGCCCAAACACACAGAAGCTGCCAGTTCCCGCAGGACTCAGGCCT
106480 IS [AG] AGGGCTGGGGGCTGAAGGTGGGTGCTGGGTCACAAGGCCTGAGTCCTGCGGGAACTGGCA[AG]CTTCTGTGTGTTTGGGGCTTTACCTGTGCTGTCTCACTCTTCTTCCTGGGAATGGGGAGG ctg22fin4 22
106482 I S GCTATAGGAGTTCCCCTGCTGAGCAGAGAAGATGAT
106482 P C S ATGACGTGGCAGACGTGCAGAATTGAGAGAAGCY
106482 P G S CGCGCCGAGGCTGCAGAATTGAGAGAAGCY
106482 T C S CATGGCTTCTCTCAATTCTGCACTCATCTTCTCTGCTCAGCAGGGGAACTCCTATAGCTG
106482 T G S CATGGCTTCTCTCAATTCTGCAGTCATCTTCTCTGCTCAGCAGGGGAACTCCTATAGCTG
106482 IS [CG] TCCTTTTTCACCTTCACTGGGCCCCATGGGGCTAGGGCCATGGCTTCTCTCAATTCTGCA[CG]TCATCTTCTCTGCTCAGCAGGGGAACTCCTATAGCTGGGGCCTGCCCTGCAGAGGTCAAA ctg22fin4 22 ZNF35
106483 I S AAAGTTTATATTTGGATTCAGTAATTGGCCTTGGGACATTTGT
106483 P T S CGCGCCCAGGAAAACAAAGCTGTTGATTTGAY
106483 P G S ATGACGTGGCAGACCAAACAAAGCTGTTGATTTGAY
106483 T T S ATTTTCAAATCAACAGCTTTGTTTCAAATGTCCCAAGGCCAATTACTGAATCCAAATATAAACTTTGT
106483 T G S ATTTTCAAATCAACAGCTTTGTTTGCAAATGTCCCAAGGCCAATTACTGAATCCAAATATAAACTTTGT
106483 IS [TG] AACATTCTGCATGCATTGTCCAGTTTCACACTGTTAATTTTCAAATCAACAGCTTTGTTT[TG]CAAATGTCCCAAGGCCAATTACTGAATCCAAATATAAACTTTGTAAGTCAAGAAACTCCA ctg22fin5 22
106484 I A CCGGACTGGCGCTTTTGGCCGT
106484 P G A ATGACG"GGCAGACGCTTGGCATTGGGTGY
106484 P A A CGCGCCGAGGACTTGGCATTGGGTGY
106484 T G A CGCCCACCCAATGCCAAGCCGGCCAAAAGCGCCAGTCCGGCG
106484 T A A CGCCCACCCAATGCCAAGTCGGCCAAAAGCGCCAGTCCGGCG
106484 IS [GA] TCTTTCCTGTTTAGGGTCTTATCCTGGCATTGAGGGCGCCGGACTGGCGCTTTGGCCG[GA]CTTGGCATTGGGTGGGCGGCTTCTTGGGACCCACATGAGCCAGTGGCATCATCCCCGCAG ctg22fin5 22 DUSP11
106485 I S ACATCTGCCCCAATCACTCCTGTGAGAAAGGAT
106485 P T S CGCGCCGAGGAAACAAAAACAAATCCTCTTTAACY
106485 P C S ATGACGTGGCAGACGACAAAAACAAATCCTCTTTAACY
106485 T T S ATGTGTTAAAGAGGATTTGTTTTGTTTCCTTCTCACAGGAGTGATTGGGGCAGATGTGA
106485 T C S ATGTGTTAAAGAGGATTTGTTTTGTTCCCTTCTCACAGGAGTGATTGGGGCAGATGTGA
106485 IS [TC] TGCTTGTTTTTAGCTTTCTCTCCCTCTTTTTTATGTGTTAAAGAGGATTTGTTTTTGT[TC]TCCTTTCTCACAGGAGTGATTGGGGCAGATGTGAGAGGGCACGCCTCATCTGTGAGGGG ctg22fin4 22
106486 I S CCGCCCTGCCGCGGCT
106486 P T S CGCGCCGAGGACATGTAGGCGTTCCGY
106486 P C S ATGACGTGGCAGACGCATGTAGGCGTTCCY
106486 T T S CGCTCGGAACGCCTACATGTGCGCGCGGCAGGGCGGCC
106486 T C S CGCTCGGAACGCCTACATGCGCGCGCGGCAGGGCGGCC
106486 IS [TC] GAAGGGTCCCTCCCGCTCGTCCGTGCGCTCACCTCCGCCGCCTCGGGAACGCCTACATG[TC]GCGCGCGGCAGGGCGGCCGCAAAGCACGCCGGCCGGCGGATCTGGCGGCCGGGACTTCGGG ctg22fin4 22
106487 I S GCTCCGCCCCCTGAAGTCCCCT
106487 P C S ATGACGTGGCAGACGTCCCAAGATCCCGGY
106487 P T S CGCGCCGAGGATCCCAAGATCCCGGY
106487 T C S CGGCCCCGGATCTTGGGAGGGGGACTTCAGGGGGCGGAGCTC
106487 T T S CGGCCCCGGATCTTGGGATGGGGACTTCAGGGGGCGGAGCTC
106487 IS [CT] GCCGGGGATCTGGGGCGCGGGACTTCGGGAGGCGGAGCTCGCCGGCCCCGGATCTTGGGA[CT]GGGGACTTCAGGGGGCGGAGCTCGCCGGCCGGAGATCTCGGGGCGAGGATTTCAGGGAGG ctg22fin4 22
106488 I A GGGGCGGGGACTCTTGGGGGA
106488 P C A ATGACGTGGCAGACCGTGGCTGGAGGGY
106488 P T A CGCGCCGAGGTGTGGCTGGAGGGY
106488 T C A AGGCCCCTCCAGCCACGCCCCCAAGAGTCCCGCCCCCAG
106488 T T A AGGCCCCTCCAGCCACACCCCAAGAGTCCCGCCCCCAG
106488 IS [CT] GGGCGAGGATTTCAGGGAGGGGAGCTCGCTCGAGGGGTCTGGGGGGCGGGACTCTTGGGGG[CT]GTGGCTGGAGGGGCCTCAAGGGGATGTCCGTGGGGGGTCTCCGGCCGCCGCGAGAGCTCC ctg22fin6 22
106489 I A ACCATTATGTAGGACAATGCTAAAAACAGAATACATATTGCATTTTTTAAGTTAA
106489 P C A ATGACGTGGCAGACCTGAAATCAAATCACCCACAY
106489 P T A CGCGCCGAGGTTGAAATCAAATCACCCACAY
106489 T C A AATATGTGGGTGATTTGATTTCAGTAACTTAAAAAATGCAATATGTATTCTGTTTTTAGCATTGTCTACATAATGGTAG
106489 T T A AATATGTGGGTGATTTGATTTCAATAACTTAAAAAATGCAATATGTATTCTGTTTTTAGCATTGTCTACATAATGGTAG
106489 IS [CT] TCCTCTACCATTATGTAGGACAATGCTAAAAACAGAATACATATTGCATTTTTTAAGTTA[CT]TGAAATCAAATCACCCACATATTCCAATCGGGTATACAGTATTTTGGCAATTTGTCCTTT ctg22fin4 22
106491 I S CGAAGGTAAGGGAGTTGGGCGCCGAT
106491 P C S ATGACGTGGCAGACGCTGGGCTCCTTGGY
106491 P G S CGCGCCGAGGCCTGGGCTCCTTGGY
106491 T C S GGGGCCAAGGAGCCCAGCTCGGCGCCCAACTCCCTTACCTTCGCA
106491 T G S GGGGCCAAGGAGCCCAGGTCGGCGCCCAACTCCCTTACCTTCGCA
106491 IS [CG] CACACATCCCGCCCTCAAATTCACTTTCCCTTATTGCGACAGGGGGGCCAAGGAGCCCAG[CG]TCGGCGCCCAACTCCCTTACCTTCGGCAGGCAGGCCTGAGTCCCGCCGCCTTCCCCACACC
106492 I A TGGCTCACCTCCTTCAATATGGCCCTACATGAGT
106492 P C A CGCGCCGAGGCAGCTTGCAGGGCAAAAY
106492 P G A ATGACGTGGCAGACGAGCTTGCAGGGCAAAAGY
106492 T C A GTTACTTTTCCCTGCAAGCTGCTCATGTAGGGCCATATTGAAGGAGGTGAGCCATG
106492 T G A GTTACTTTTCCCTGCAAGCTGCTCATGTAGGGCCATATTGAAGGAGGTGAGCCATG

FIGURE 129G

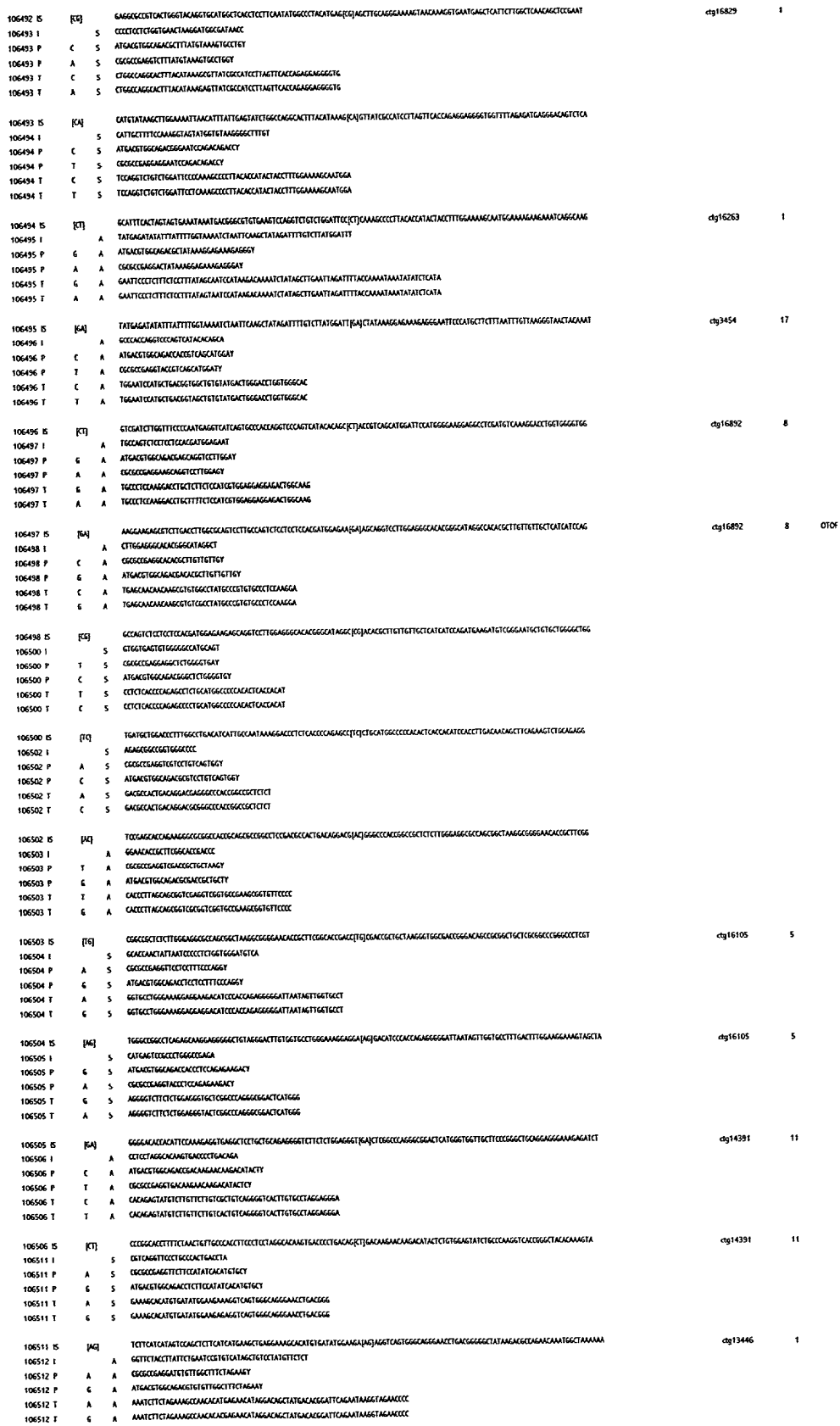

106492 IS [CG] GAGGCGCCGTCACTGGGTACAGGTGCATGGCTCACCTCCTTCAATATGGCCCTACATGAG[CG]AGCTTGCAGGGAAAAGTAACAAAGGTGAATGAGCTCATTCTTGGCTCAACAGCTCCGAAT ctg16829 1
106493 I S CCCCTCCTCTGGTGAACTAAGGATGGCGATAACC
106493 P C S ATGACGTGGCAGACGCTTATGTAAAGTGCCTGT
106493 P A S CGCGCCGAGGTCTTTATGTAAAGTGCCTGGY
106493 T C S CTGGCCAGGCACTTTACATAAAGGTTATCGCCATCCTTAGTTCACCAGAGGAGGGGGTG
106493 T A S CTGGCCAGGCACTTTACATAAAGAGTTATCGCCATCCTTAGTTCACCAGAGGAGGGGTG
106493 IS [CA] CATGTATAAGCTTGGAAAATTAACATTTATTGAGTATCTGGCCAGGCACTTTACATAAAG[CA]GTTATCGCCATCCTTAGTTCACCAGAGGAGGGGTGGTTTTAGAGATGAGGGACAGTCTCA
106494 I S CATTGCTTTTCCAAAGGTAGTATGGTGTAAGGGGCTTTGT
106494 P C S ATGACGTGGCAGACGGGAATCCAGACACAGACCY
106494 P T S CGCGCCGAGGAGGAATCCAGACAGAGCY
106494 T C S TCCAGGTCTGTCTGGATTCCCCAAAGCCCCTTACACCATACTACCTTTGGAAAAGCAATGGA
106494 T T S TCCAGGTCTGTCTGGATTCCTCAAAGCCCCTTACACCATACTACCTTTGGAAAAGCAATGGA
106494 IS [CT] GCATTTCACTAGTAGTGAAATAAATGACGGGCGTGTGAAGTCCAGGTCTGTCTGGATTCC[CT]CAAAGCCCCTTACACCATACTACCTTTGGAAAAGCAATGGAAAAGAAGAAATCAGGCAAG ctg16263 1
106495 I A TATGAGATATATTTATTTTGGTAAAATCTAATTCAAGCTATAGATTTTGTCTTATGGATTT
106495 P G A ATGACGTGGCAGACGCTATAAAGCAGAAAGAGGGY
106495 P A A CGGGCCGAGGACTATAAAGGAGAAAGAGGGAY
106495 T G A GAATCCCTCTTTCTCCTTTATAGCAATCCATAAGACAAAATCTATAGCTTGAATTAGATTTTACCAAAATAAATATATCTCATA
106495 T A A GAATTCCCTCTTTCTCCTTTATAGTAATCCATAAGACAAAATCTATAGCTTGAATTAGATTTTACCAAAATAAATATATCTCATA
106495 IS [GA] TATGAGATATATTTATTTTGGTAAAATCTAATTCAAGCTATAGATTTTGTCTTATGGATT[GA]CTATAAAGGAGAAAGAGGGAATTCCCATGCTTCTTTAATTGTTAAGGGTAACTACAAAT ctg3454 17
106496 I A GCCCACCAGGTCCCAGTCATACACAGCA
106496 P C A ATGACGTGGCAGACCACCGTCAGCATGGAY
106496 P T A CGCGCCGAGGTACCGTCAGCATGGATY
106496 T C A TGGAATCCATGCTGACGGTGGCTGTGTATGACTGGGACCTGGTGGGCAC
106496 T T A TGGAATCCATGCTGACGGTAGCTGTGTATGACTGGGACCTGGTGGGCAC
106496 IS [CT] GTCGATCTTGGTTTCCCCAATGAGGTCATCAGTGCCCACCAGGTCCCAGTCATACACAGC[CT]ACCGTCAGCATGGATTCCATGGGGAAGGAGGCCTCGATGTCAAAGGACCTGGTGGGGTGG ctg16892 8
106497 I A TGCCAGTCTCCTCCTCCACGATGGAGAAT
106497 P G A ATGACGTGGCAGACGAGCAGGTCCTTGGAY
106497 P A A CGCGCCGAGGAAGCAGGTCCTTGGAGY
106497 T G A TGCCCTCCAAGGACCTGCTCTTCTCCATCGTGGAGGAGGAGACTGGCAAG
106497 T A A TGCCCTCCAAGGACCTGCTTTTCTCCATCGTGGAGGAGGAGACTGGCAAG
106497 IS [GA] AAGGAAGAGGTCTTGACCTTGGCGCAGTCCTTGCCAGTCTCCTCCTCCACGATGGAGAA[GA]AGCAGGTCCTTGGAGGGCACACAGGGCATAGGCCACACGCTTGTTGTTGCTCATCATCCAG ctg16892 8 OTOF
106498 I A CTTGGAGGGCACACGGGCATAGGCT
106498 P C A CGCGCCGAGGCACACGCTTGTTGTTGY
106498 P G A ATGACGTGGCAGACACACGCTTGTTGTTGY
106498 T C A TGAGCAACAACAAGCGTGTGGCCTATGCCCGTGTGCCCTCCAAGGA
106498 T G A TGAGCAACAACAAGCGTGTCGCCTATGCCCGTGTGCCCTCCAAGGA
106498 IS [CG] GCCAGTCTCCTCCTCCACGATGGAGAAGAGCAGGTCCTTGGAGGGCACACGGGCATAGGC[CG]ACACGCTTGTTGTTGCTCATCATCCAGATGAAGATGTCGGGAATGCTGTGCTGGGGCTGG
106500 I S GTGGTGAGTGTGGGGGCCATGCAGT
106500 P T S CGGCCCGAGGAGGCTCTGGGGTGAY
106500 P C S ATGACGTGGCAGACGGGCTCTGGGGTGY
106500 T T S CCTCTCACCCCACAGCCTCTGCATGGCCCCCACACTCACCACAT
106500 T C S CCTCTCACCCCAGAGCCCCTGCATGGCCCCCACACTCACCACAT
106500 IS [TC] TGATGCTGGACCCTTGGCCTGACATCATTGCCAATAAGGACCCTCTCACCCCAGAGCC[TC]CTGCATGGCCCCCACACTCACCACATCCCACCTTGACAACAGCTTCAGAAGTCTGCAGAGG
106502 I S AGAGCGGCCGGTGGGCCCC
106502 P A S CGCGCCGAGGTCGTCCTGTCAGTGGY
106502 P C S ATGACGTGGCAGACGCGTCCTGTCAGTGGY
106502 T A S GACGCCACTGACAGGACGAGGGCCCACCGCCCGCTCTCT
106502 T C S GACGCCACTGACAGGACGCGGGCCCACCGGCCGCTCTCT
106502 IS [AC] TCCGAGCACCAGAAGGGCGCGGCCACGCAGCGCCGGCCTCCGACGCCACTGACAGGACG[AC]GGGCCCACCGGCCGCTCTCTTGGGAGGCGCCAGCGGCTAAGGCCGGGGAACACCGCTTCGG
106503 I A GGAACACCGCTTCGGCACCGACCC
106503 P T A CGCGCCGAGGTCGACCGCTGCTAAGY
106503 P G A ATGACGTGGCAGACGCGACCGCTGCTY
106503 T T A CACCCTTAGCAGCGGTCGAGGTCGGTGCCGAAGCGGTGTTCCCC
106503 T G A CACCCTTAGCAGCGGTCGCGGTCGGTGCCGAAGCGGTGTTCCCC
106503 IS [TG] CGGCCGCTCTCTTGGGAGGGCGCCAGCGGCTAAGGCGGGGAACACCGCTTCGGCACCGACCTG]CGACCGCTGCTAAGGGTGGCGACCGGGACAGCCGCGGCTGCTCGCGGCCCGGGCCTCGT ctg16105 5
106504 I S GCACCAACTATTAATCCCCCTCTGGTGGGATGTCA
106504 P A S CGCGCCGAGGTCCTCCTTTCCCAGGY
106504 P G S ATGACGTGGCAGACCTCCTCTTTCCCAGGY
106504 T A S GGTGCCTGGGAAAGGAGGAAGACATCCCACCAGAGGGGGATTAATAGTTGGTGCCT
106504 T G S GGTGCCTGGGAAAGGAGGAAGACATCCCACCAGAGGGGGATTAATAGTTGGTGCCT
106504 IS [AG] TGGGCCGGCCTCAGAGCAAGCAGGGGGCTGTAGGGACTTGTGGTGCCTGGGAAAGGAGGA[AG]GACATCCCACCAGAGGGGGATTAATAGTTGGTGCCTTGACTTTGGAAGGAAAGTAGCTA ctg16105 5
106505 I S CATGAGTCCGCCTGGGCCGAGA
106505 P G S ATCAGTGGCAGACCACCCTCCAGAGAAGACY
106505 P A S CGCGCCGAGGTACCCTCCAGAGAAGACY
106505 T G S AGGGGTCTTCTCTGGAGGGTGCTCGGCCCAGGGCGGACTCATGGG
106505 T A S AGGGGTCTTCTCTGGAGGGTACTCGGCCCAGGGCGGACTCATGGG
106505 IS [GA] GGGCACACACATTCCAAAGAGGTGAGGCTCCTGCTGCAGAGGGGTCTTCTCTGGAGGGT[GA]CTCGGCCCAGGGCGGACTCATGGGTGGTTGCTTCCCGGGCTGCAGGAGGGAAAGAGATCT ctg14391 11
106506 I A CCTCCTAGGCACAAGTGACCCCTGACAGA
106506 P C A ATGACGTGGCAGACCGCACAAGAACAAGACATACTY
106506 P T A CGCGCCGAGGTGACAAGAACAAGACATACTCY
106506 T C A CACAGAGTATGTCTTGTTCTTGTCGCTGTCAGGGGTCACTTGTGCCTAGGAGGGA
106506 T T A CACAGAGTATGTCTTGTTCTTGTCACTGTCAGGGGTCACTTGTGCCTAGGAGGGA
106506 IS [CT] CCCGGCACCTTTTCTAACTGTTGCCCACCTTCCCTCCTAGGCACAAGTGACCCCTGACAG[CT]GACAAGAACAAGACATACTCTGTGGAGTATCTGCCCAAGGTCACCGGGCTACACAAAGTA ctg14391 11
106511 I S CGTCAGGTTCCCTGCCCACTGACCTA
106511 P A S CGCGCCGAGGTTCTTCCATATCACATGTGCY
106511 P G S ATGACGTGGCAGACCTCTTCCATATCACATGTGCY
106511 T A S GAAAGCACATGTGATATGGAAGAAAGGTCAGTGGGCAGGGAACCTGACGGG
106511 T G S GAAAGCACATGTGATATGGAAGAAGGTCAGTGGGCAGGGAACCTGACGGG
106511 IS [AG] TCTTCATCATAGTCCAGCTCTTCATCATGAAGCTGAAGAAAGCACATGTGATATGCAAGA[AG]AGGTCAGTGGGCAGGGAACCTGACGGGGGCTATAAGAGCGCAGAACAAATGGCTAAAAAA ctg13446 1
106512 I A GGTTCTACCTTATTCTGAATCCGTGTCATAGCTGTCCTATGTTCTCT
106512 P A A CGCGCCGAGGATGTGTTGGCTTCTAGAAGY
106512 P G A ATGACGTGGCAGACGTGTTGTTGGCTTCTAGAAY
106512 T A A AAATCTTCTAGAAAGCCAACACATGAGAACATAGGACAGCTATGACACGGATTCAGAATAAGGTAGAACCCC
106512 T G A AAATCTTCTAGAAAGCCAACACATGAGAACATAGGACAGCTATGACACGGATTCAGAATAAGGTAGAACCCC

FIGURE 129G

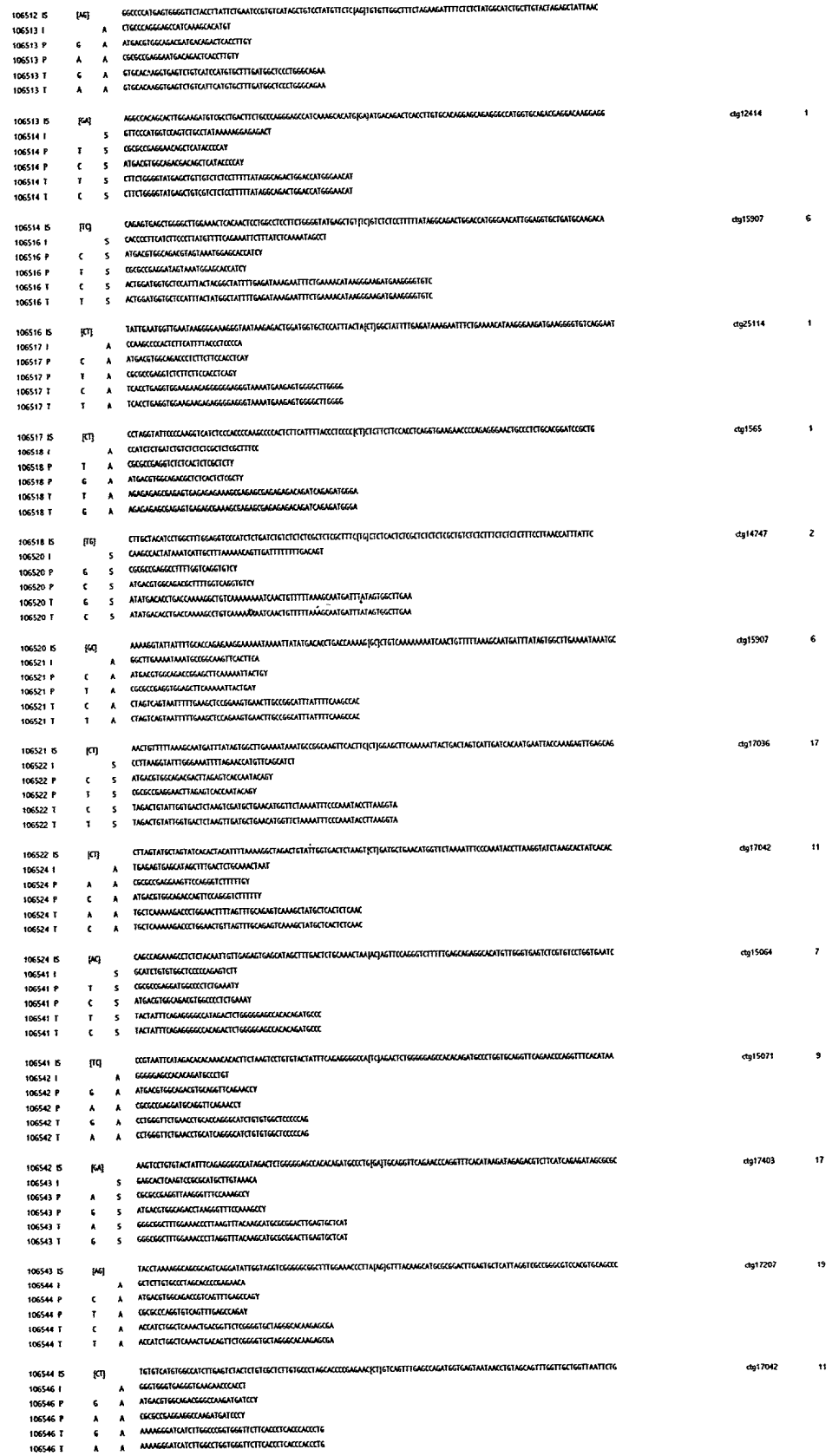


FIGURE 129G

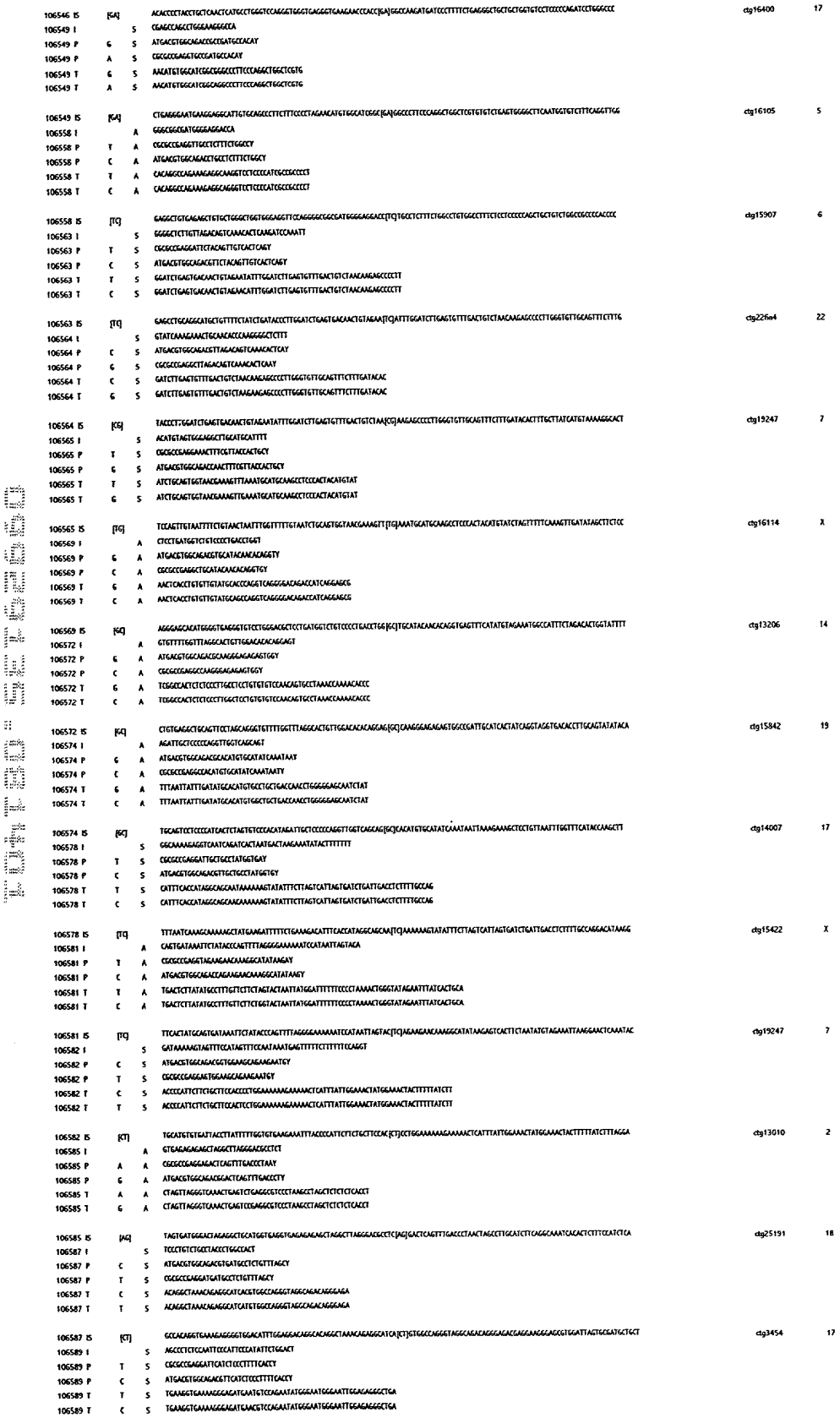
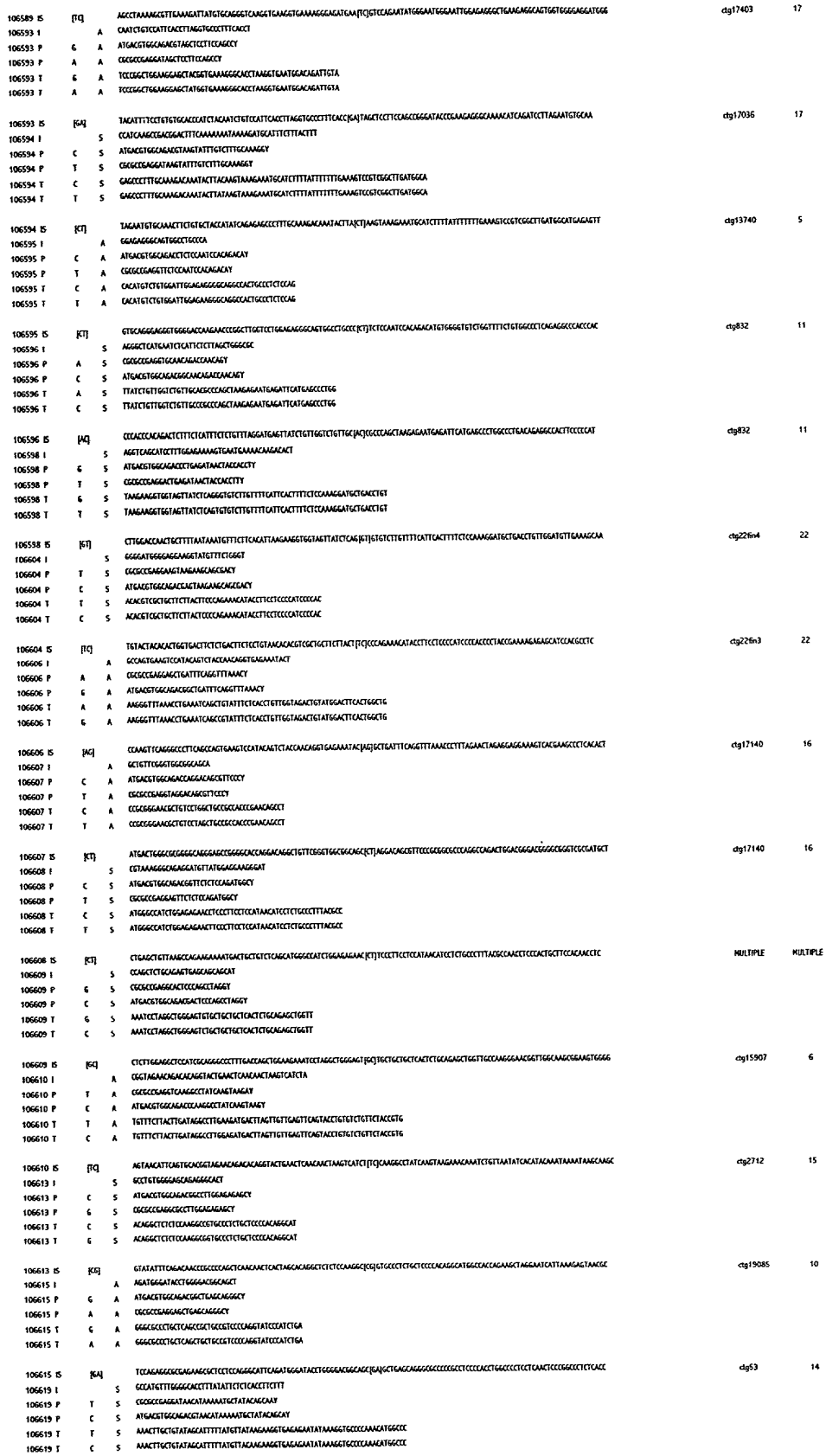

106546 IS [GA] ACACCCCTACCTGCTCAAACTCATGCCTGGGTCCAGGGTGGGTGAGGGTGAAGAACCCACC[GA]GGCCAAGATGATCCCTTTTCTGAGGGCTGCTGCTGGTGTCCTCCCCCAGATCCTGGGCCC ctg16400 17
106549 I S CGAGCCAGCCTGGGAAGGGCCA
106549 P G S ATGACGTGGCAGACCGCGATGCCACAY
106549 P A S CGCGCCGAGGTGCCGATGCCACAY
106549 T G S AACATGTGGCATCGGCGGGCCCTTCCCAGGCTGGCTCGTG
106549 T A S AACATGTGGCATCGGCAGGCCCTTCCCAGGCTGGCTCGTG
106549 IS [GA] CTGAGGGAATGAAGGAGGCATTGTGCAGCCCTTCTTTCCCCTAGAACATGTGGCATGGGC[GA]GGCCCTTCCCAGGCTGGCTCGTGTGTCTGAGTGGGGCTTCAATGGTGTCTTTCAGGTTGG ctg16105 5
106558 I A GGGCGGCGATGGGGAGGACCA
106558 P T A CGCGCCGAGGTTGCCTCTTTCTGGCCY
106558 P C A ATGACGTGGCAGACCTGCCTCTTCTGGCY
106558 T T A CACAGCCCAGAAAGAGGCAAGGTCCTCCCCATGCCGCCGCCCCT
106558 T C A CACAGGCCAGAAAGAGGCAGGGTCCTCCCCATGCCGCCGCCCCT
106558 IS [TC] GAGGCTGTGAGAGCTGTGCTGGGCTGGTGGGAGGTTCCAGGGGCGGCGATGGGGAGGACC[TC]TGCCTCTTTCTGGCCTGTGGCCTTTCTCCTCCCCCAGCTGCTGTCTGGCCGCCCACCCC ctg15907 6
106563 I S GGGGCTCTTGTTAGACAGTCAAACACTCAAGATCCAAATT
106563 P T S CGCGCCGAGGATTCTACAGTTGTCACTCAGY
106563 P C S ATGACGTGGCAGACGTTCTACAGTTGTCACTCAGY
106563 T T S GGATCTGAGTGACAACTGTAGAATATTTGGATCTTGAGTGTTTGACTGTCTAACAAGAGCCCCTT
106563 T C S GGATCTGAGTGACAACTGTAGAACATTTGGATCTTGAGTGTTTGACTGTCTAACAAGAGCCCCTT
106563 IS [TC] GAGCCTGCAGGCATGCTGTTTTCTATCTGATACCCTTGGATCTGAGTGACAACTGTAGAA[TC]ATTTGGATCTTGAGTGTTTGACTGTCTAACAAGAGCCCCTTGGGTGTTGCAGTTTCTTTG ctg22fm4 22
106564 I S GTATCAAAGAAACTGCAACACCCAAGGGGCTCTTT
106564 P C S ATGACGTGGCAGACGTTAGACAGTCAAACACTCAY
106564 P G S CGCGCCGAGGCTTAGACAGTCAAACACTCAAY
106564 T C S GATCTTGAGTGTTTGACTGTCTAAGAAGAGCCCCTTGGGTGTTGCAGTTTCTTTGATACAC
106564 T G S GATCTTGAGTGTTTGACTGTCTAAGAAGAGCCCCTTGGGTGTTGCAGTTTCTTTGATACAC
106564 IS [CG] TACCCT;GGATCTGAGTGACAACTGTAGAATATTTGGATCTTGAGTGTTTGACTGTCTAA[CG]AAGAGCCCCTTGGGTGTTGCAGTTTCTTTGATACACTTTGCTTATCATGTAAAAGGCACT ctg19247 7
106565 I S ACATGTAGTGGCAGGCTTGCATGCATTTT
106565 P T S CGCGCCGAGAAACTTTCGTTACCACTGCY
106565 P G S ATGACGTGGCAGACCAACTTTCGTTACCACTGCY
106565 T T S ATCTGCAGTGGTAACGAAAGTTTAAATGCATGCAAGCCTCCCACTACATGTAT
106565 T G S ATCTGCAGTGGTAACGAAAGTTGAAATGCATGCAAGCCTCCCACTACATGTAT
106565 IS [TG] TCCAGTTGTAATTTTCTGTAACTAATTTGGTTTTTGTAATCTGCAGTGGTAACGAAAGTT[TG]AAATGCATGCAAGCCTCCCACTACATGTATCTAGTTTTTCAAAGTTGATATAGCTTCTCC ctg16114 X
106569 I A CTCCTGATGGTCTGTCCCCTGACCTGGT
106569 P G A ATGACGTGGCAGACGTGCATACAACACAGGTY
106569 P C A CGCGCCGAGGCTGCATACAACACAGGTGY
106569 T G A AACTCACCTGTGTTGTATGCACCCAGGTCAGGGGACAGACCATCAGGAGCG
106569 T C A AACTCACCTGTGTTGTATGCAGCCAGGTCAGGGGACAGACCATCAGGAGCG
106569 IS [GC] AGGGAGCACATGGGGTGAGGGTGTCCTGGCAGCGCTCCTGATGGTCTGTCCCCTGACCTGG[GC]TGCATACAACACAGGTGAGTTTCATATGTAGAAATGGCCATTTCTAGACACTGGTATTTT ctg13206 14
106572 I A GTGTTTTGGTTTAGGCACTGTTGGACACACACAGGAGT
106572 P G A ATGACGTGGCAGACGCAAGGGAGAGAGTGGY
106572 P C A CGCGCCGAGGCCAAGGGAGAGAGTGGY
106572 T G A TCGGCCACTCTCTCCCTTGGCTCCTGTGTGTCCAACAGTGCCTAAACCAAAACACCC
106572 T C A TCGGCCACTCTCTCCCTTGGCTCCTGTGTGTCCAACAGTGCCTAAACCAAAACACCC
106572 IS [GC] CTGTGAGGCTGCAGTTCCTAGCAGGGTGTTTTGGTTTAGGCACTGTTGGACACACAGGAG[GC]CAAGGGAGAGAGTGGCCGATTGCATCACTATCAGGTAGGTGACACCTTGCAGTATATACA ctg15842 19
106574 I A AGATTGCTCCCCCAGGTTGGTCAGCAGT
106574 P G A ATGACGTGGCAGACGCACATGTGCATATCAAATAAT
106574 P C A CGCGCCGAGGCCACATGTGCATATCAAATAATY
106574 T G A TTTAATTATTTGATATGCACATGTGCCTGCTGACCAACCTGGGGGAGCAATCTAT
106574 T C A TTTAATTATTTGATATGCACATGTGGCTGCTGACCAACCTGGGGGAGCAATCTAT
106574 IS [GC] TGCAGTCCTCCCCATCACTCTAGTGTCCCACATAGATTGCTCCCCCAGGTTGGTCAGCAG[GC]CACATGTGCATATCAAATAATTAAAGAAAGCTCCTGTTAATTTGGTTTCATACCAAGCTT ctg14007 17
106578 I S GGCAAAAAGAGGTCAATCAGATCACTAATGACTAAGAAATATACTTTTTTT
106578 P T S CGCGCCGAGGATTGCTGCCTATGGTGAY
106578 P C S ATGACGTGGCAGACGTTGCTGCCTATGGTGY
106578 T T S CATTTCACCATAGGCAGCAATAAAAAAGTATATTTCTTAGTCATTAGTGATCTGATTGACCTCTTTTGCCAG
106578 T C S CATTTCACCATAGGCAGCAACAAAAAAGTATATTTCTTAGTCATTAGTGATCTGATTGACCTCTTTTGCCAG
106578 IS [TC] TTTAATCAAAGCAAAAAGCTATGAAGATTTTTCTGAAAGACATTTCACCATAGGCAGCAA[TC]AAAAAAGTATATTTCTTAGTCATTAGTGATCTGATTGACCTCTTTTGCCAGGACATAAGG ctg15422 X
106581 I A CAGTGATAAATTCTATACCCAGTTTTAGGGGAAAAAATCCATAATTAGTACA
106581 P T A CGCGCCGAGGTAGAAGAACAAAGGCATATAAGAY
106581 P C A ATGACGTGGCAGACCAGAAGAACAAAGGCATATAAGY
106581 T T A TGACTCTTATATGCCTTTGTTCTTCTAGTACTAATTATGGATTTTTTCCCCTAAAACTGGGTATAGAATTTATCACTGCA
106581 T C A TGACTCTTATATGCCTTTGTTCTTCTGGTACTAATTATGGATTTTTTCCCCTAAAACTGGGTATAGAATTTATCACTGCA
106581 IS [TC] TTCACTATGCAGTGATAAATTCTATACCCAGTTTTAGGGGAAAAAATCCATAATTAGTAC[TC]AGAAGAACAAAGGCATATAAGAGTCACTTCTAATATGTAGAAATTAAGGAACTCAAATAC ctg19247 7
106582 I S GATAAAAAGTAGTTTCCATAGTTTCCAATAAATGAGTTTTTCTTTTTTCCAGGT
106582 P C S ATGACGTGGCAGACGCGTGGAAGCAGAAGAATGY
106582 P T S CGCGCCGAGGAGTGGAAGCAGAAGAATGY
106582 T C S ACCCCATTCTTCTGCTTCCACCCTGGAAAAAAGAAAAACTCATTTATTGGAAACTATGGAAACTACTTTTTATCTT
106582 T T S ACCCCATTCTTCTGCTTCCACTCCTGGAAAAAAGAAAAACTCATTTATTGGAAACTATGGAAACTACTTTTTATCTT
106582 IS [CT] TGCATGTGTGATTACCTTATTTTTGGGTGTGAAGAAATTTACCCCATTCTCTGCTTCCAC[CT]CCTGGAAAAAAGAAAAACTCATTTATTGGAAACTATGGAAACTACTTTTTATCTTTAGGA ctg13010 2
106585 I A GTGAGAGAGAGCTAGGCTTAGGGAGCCCTCT
106585 P A A CGCGCCGAGGAGACTCAGTTTGACCCTAAY
106585 P G A ATGACGTGGCAGACGCACTCAGTTTGACCCTY
106585 T A A CTAGTTAGGGTCAAACTGAGTCTGAGGCGTCCCTAAGCCTAGCTCTCTCTCACCT
106585 T G A CTAGTTAGGGTCAAACTGAGTCCCGAGGCGTCCCTAAGCCTAGCTCTCTCTCACCT
106585 IS [AG] TAGTGATGGGACTAGAGGCTCCATGGTGAGGTGAGAGAGAGCTAGGCTTAGGGAGCGCCTC[AG]GACTCAGTTTGACCCTAACTAGCCTTGCATCTTCAGGCAAATCACACTCTTTCCATCTCA ctg25191 18
106587 I S TCCCTGTCTGGCTACCCTGGCCACT
106587 P C S ATGACGTGGCAGACGTGATGCCTCTGTTTAGCY
106587 P T S CGCGCCGAGGATGATGCCTCTGTTTAGCY
106587 T C S ACAGGCTAAACAGAGGCATCACGTGGCCAGGGTAGGCAGACAGGGAGA
106587 T T S ACAGGCTAAACAGAGGCATCATGTGGCCAGGGTAGGCAGACAGGGAGA
106587 IS [CT] GCCACAGGTGAAAGAGGGGTGGACATTTGGAGGACAGGCACAGGCTAAACAGAGGCATCA[CT]GTGGCCAGGGTAGGCAGACAGGGAGACAGAGGAAGGGACGGTGGATTAGTGCGATGCTGCT ctg3454 17
106589 I S AGCCCTCTCCAATTCCCATTCCCATATTCTGGACT
106589 P T S CGCGCCGAGGATTCATCTCCCTTTTCACCY
106589 P C S ATGACGTGGCAGACGTTCATCTCCCTTTTCACCY
106589 T T S TGAAGGTGAAAAGGGAGATGAATGTCCAGAATATGGGAATGGGAATTGGAGAGGGCTGA
106589 T C S TGAAGGTGAAAAGGGAGATGAACGTCCAGAATATGGGAATGGGAATTGGAGAGGGCTGA

FIGURE 129G


106589 IS [TC] AGCCTAAAAGCGTTGAAAGATTATGTGCAGGGTCAAGGTGAAGGTGAAAAGGGAGATGAA[TC]GTCCAGAATATGGGAATGGGAATTGGAGAAGGGCTGAAGAGGCAGTGGTGGGGAGGATGGG ctg17403 17
106593 I A CAATCTGTCCATTCACCTTAGGTGCCCTTTCACCT
106593 P G A ATGACGTGGCGAGCGTAGCTCCTTCCAGCCY
106593 P A A CGCGCCGAGGATAGCTCCTTCCAGCCY
106593 T G A TCCCGGCTGGAAGGAGCTACGGTGAAAGGGCACCTAAGGTGAATGGACAGATTGTA
106593 T A A TCCCGGCTGGAAGGAGCTATGGTGAAAGGGCACCTAAGGTGAATGGACAGATTGTA

106593 IS [GA] TACATTTCCGTGTGTGCACCCATCTACAATCTGTCCATTCACCTTAGGTGCCCTTCACC[GA]TAGCTCCTCCAGCCGGGATACCCGAAGAGGGCAAAACATCAGATCCTTAGAATGTGCAA ctg17036 17
106594 I S CCATCAAGCCGACGGACTTTCAAAAAAATAAAAGATGCATTTCTTTACTTT
106594 P C S ATGACGTGCCAGAGTAAGTATTTGTCTTTGCAAAGGY
106594 P T S CGCGCCGAGGATAAGTATTTGTCTTTGCAAAGGY
106594 P C S GAGCCCTTTGCAAAGACAAATACTTACAAGTAAAGAAATGCATCTTTTATTTTTTTGAAAGTCCGTCGGCTTGATGGCA
106594 T C S GAGCCCTTTGCAAAGACAAATACTTATAAGTAAAGAAATGCATCTTTTATTTTTTTGAAAGTCCGTCGGCTTGATGGCA
106594 T T S GAGCCCTTTGCAAAGACAAATACTTATAAGTAAAGAAATGCATCTTTTATTTTTTTGAAAGTCCGTCGGCTTGATGGCA

106594 IS [CT] TAGAATGTGCAAACTTCTGTGCTACCATATCAGAGAGCCCTTTGCAAAGACAAATACTTA[CT]AAGTAAAGAAATGCATCTTTTATTTTTTTGAAAGTCCGTCGGCTTGATGGCATGAGAGTT ctg13740 5
106595 I A GGAGAGGGCAGTGGCCTGCCCA
106595 P C A ATGACGTGGCAGACCTCTCCAATCCACAGACAY
106595 P T A CGCGCCGAGGTTCTCCAATCCACAGACAY
106595 T C A CACATGTCTGTGGATTGGAGAGGGCAGGCCACTGCCCTCTCCAG
106595 T T A CACATGTCTGTGGATTGGAGAAGGGCAGGCCACTGCCCTCTCCAG

106595 IS [CT] GTGCAGGGAGGGTGGGGACCAAGAACCGGCTTGGTCCTGGAGAGGGCAGTGGCCTGCCC[CT]CTCCAATCCACAGACATGTGGGGTGTCTGGTTTTCTGTGGCCCTCAGAGGCCCACCCAC ctg832 11
106596 I S AGGGCTCATGAATCTCATTCTCTTAGCTGGGCGC
106596 P A S CGCGCCGAGGTGCAACAGACCAACAGY
106596 P C S ATGACGTGGCAGACGGCAACAGACCAACAGY
106596 T A S TTATCTGTTGGTCTGTTGCCAGCCCAGCTAAGAGAATGAGATTCATGAGCCCTGG
106596 T C S TTATCTGTTGGTCTGTTGCCCGCCCAGCTAAGAGAATGAGATTCATGAGCCCTGG

106596 IS [AC] CCCACCCACAGACTCTTTCTCATTTCTCTGTTTAGGATGAGTTATCTGTTGGTCTGTTGC[AC]CGCCCAGCTAAGAGAATGAGATTCATGAGCCCTGGCCCTGACAGAGGCCACTTCCCCCAT ctg832 11
106598 I S AGGTCAGCATCCTTTGGAGAAAAGTGAATGAAAACAAGACACT
106598 P G S ATGACGTGGCAGACCCTGAGATAACTACCACCTY
106598 P T S CGCGCCGAGGACTGAGATAACTACCACCTTY
106598 T G S TAAGAAGGTGGTAGTTATCTCAGGGTGTCTTGTTTTCATTCACTTTTCTCCAAAGGATGCTGACCTGT
106598 T T S TAAGAAGGTGGTAGTTATCTCAGTGTGTCTTGTTTTCATTCACTTTTCTCCAAAGGATGCTGACCTGT

106538 IS [GT] CTTGGACCAACTGCTTTTAATAAATGTTTCTTCACATTAAGAAGGTGGTAGTTATCTCAG[GT]GTGTCTTGTTTTCATTCACTTTTCTCCAAAGGATGCTGACCTGTTGGATGTTGAAAGCAA ctg226n4 22
106604 I S GGGGATGGGGAGGAAGGTATGTTTCTGGGT
106604 P T S CGCGCCGAGGAAGTAAGAAGCAGCGACY
106604 P C S ATGACGTGGCAGACGAGTAAGAAGCAGCGACY
106604 T T S ACACGTCGCTGCTTCTTACTTCCCAGAAACATACCTTCCTCCCCATCCCCAC
106604 T C S ACACGTCGCTGCTTCTTACTCCCCAGAAACATACCTTCCTCCCCATCCCCAC

106604 IS [TC] TGTACTACACACTGGTGACTCTCTGACTTCTCCTGTAACACACGTCGCTGCTTCTTACT[TC]CCCAGAAACATACCTTCCTCCCCATCCCCACCCCTACCGAAAAGAGAGCATCCACGCCTC ctg226n3 22
106606 I A GCCAGTGAAGTCCATACAGTCTACCAACAGGTGAGAAATACTAG[GC]GCTGATTTCAGGTTTAAACCCTTTAGAACTAGAGGAGGAAAGTCACGAAGCCCTCACACT
106606 P A A CGCGCCGAGGAGCTGATTTCAGGTTTAAACY
106606 P G A ATGACGTGGCAGACGGCTGATTTCAGGTTTAAACY
106606 T A A AAGGGTTTAAACCTGAAATCAGCCTGTATTTCTCACCTGTTGGTAGACTGTATGGACTTCACTGGCTG
106606 T G A AAGGGTTTAAACCTGAAATCAGCCGTATTTCTCACCTGTTGGTAGACTGTATGGACTTCACTGGCTG

106606 IS [AC] CCAAGTTCAAGGGCCCTTCAGCCAGTGAAGTCCATACAGTCTACCAACAGGTGAGAAATAC[AG]GCTGATTTCAGGTTTAAACCCTTTAGAACTAGAGGAGGAAAGTCACGAAGCCCTCACACT ctg17140 16
106607 I A GCTGTTCGGGTGGCGGCAGCA
106607 P C A ATGACGTGGCAGACCAGGACAGCGTTCCCY
106607 P T A CGCGCCGAGGTAGGACAGCGTTCCCY
106607 T C A CCGCGGGGAACGCTGTCCTGGCTGCCGCCACCCGAACAGCCT
106607 T T A CCGCGGGAACGCTGTCCTAGCTGCCGCCACCCGAACAGCCT

106607 IS [CT] ATGACTGGGCGCGGGGCAGGGAGCCGGGGCACCAGGACAGGCTGTTCGGGTGGCGGCAGC[CT]AGGACAGCGTTCCCGCGGGCCCCAGGCCAGACTGGACGGGACGGGGCGGGTCGCGATGCT ctg17140 16
106608 I S CGTAAAGGGCAGAGGATGTTATGGAGGAAGGGAT
106608 P C S ATGACGTGGCAGACGGTTCTCTCCAGATGGCY
106608 P T S CGCGCCGAGGAGTTCTCTCCAGATGGCY
106608 T C S ATGGGCCATCTGGAGAGAACTCCCTTCCTCCATAACATCCTCTGCCCTTTACGCC
106608 T T S ATGGGCCATCTGGAGAGAACTTCCCTTCCTCCATAACATCCTCTGCCCTTTACGCC

106608 IS [CT] CTGAGCTGTTAAGCCAGAAGAAAATGACTGCTGTCTCAGCATGGGCCATCTGGAGAGAAC[CT]TCCCTTCCTCCATAACATCCTCTGCCCTTTACGCCAACCTCCCACTGCTTCCACAACCTC MULTIPLE MULTIPLE
106609 I S CCAGCTCTGCAGAGTGAGCAGCAGCAT
106609 P G S CGCGCCGAGGCACTCCCAGCCTAGGY
106609 P C S ATGACGTGGCAGACGACTCCCAGCCTAGGY
106609 T G S AAATCCTAGGCTGGGAGTGTGCTGCTGCTCACTCTGCAGAGCTGGTT
106609 T C S AAATCCTAGGCTGGGAGTCTGCTGCTGCTCACTCTGCAGAGCTGGTT

106609 IS [GC] CTCTTGGAGGCTCCATCGCAGGGCCCTTTGACCAGCTGGAAGAAATCCTAGGCTGGGAGTGC[TG]TGCTGCTGCTCACTCTGCAGAGCTGGTTGCCAAGGGAACGGTTGGCAAGCGGAAGTGGGG ctg15907 6
106610 I A CGGTAGAACAGACACAGTACTGAACTCAACAACTAAGTCATCTA
106610 P T A CGCGCCGAGGTCAAGGCCTATCAAGTAAGAY
106610 P C A ATGACGTGGCAGACCCAAGGCCTATCAAGTAAGY
106610 T T A TGTTTCTTACTTGATAGGCCTTGAAGATGACTTAGTTGTTGAGTTCAGTACCTGTGTCTGTTCTACCGTG
106610 T C A TGTTTCTTACTTGATAGGCCTTGGAGATGACTTAGTTGTTGAGTTCAGTACCTGTGTCTGTTCTACCGTG

106610 IS [TC] AGTAACATTCAGTGCAGCGTAGAACAGACACAGGTACTGAACTCAACAACTAAGTCATCT[TC]CAAGCCTATCAAGTAAGAAACAAATCTGTTAATATCACATACAAATAAAATAAGCAAGC ctg2712 15
106613 I S GCCTGTGGGGAGCAGAGGGCACT
106613 P C S ATGACGTGGCAGACGGCCTGGAGAGAGCY
106613 P G S CGCGCCGAGGCGCCTTGGAGAGAGCY
106613 T C S ACAGGCTCTCTCCAAGGCCGTGCCCTCTGCTCCCCACAGGCAT
106613 T G S ACAGGCTCTCTCCAAGGCGGTGCCCTCTGCTCCCCACAGGCAT

106613 IS [CG] GTATATTTCAGACAACCCGCCCCAGCTCAACAACTCACTAGCACAGGCTCTCTCCAAGGC[CG]GTGCCCTCTGCTCCCCACAGGCATGGCCACCAGAAGCTAGGAATCATTAAAGAGTAACGC ctg19085 10
106615 I A AGATGGGATACCTGGGGACGGCAGCT
106615 P G A ATGACGTGGCAGACGGCTGAGCAGGGCY
106615 P A A CGCGCCGAGGAGCTGAGCAGGGCY
106615 T G A GGGCGCCCTGCTCAGCCGCTGCCGTCCCCAGGTATCCCATCTGA
106615 T A A GGGCGCCCTGCTCAGCTGCTGCCGTCCCCAGGTATCCCATCTGA

106615 IS [GA] TCCAGAGGCGCGAGAAGCGCTCCTCCAGGGCATTCAGATGGGATACCTGGGGACGGCAGC[GA]GCTGAGCAGGGGCCCCCCGCCTCCCCACCTGGCCCCTCCTCAACTCCCGGCCCTCTCACC ctg53 14
106619 I S GCCATGTTTGGGGCAACTTTATATTCTCTCACCTTCTTT
106619 P T S CGCGCCGAGGATAACATAAAAATGCTATACAGCAAY
106619 P C S ATGACGTGGCAGACGTAACATAAAAATGCTATACAGCAY
106619 T T S AAACTTGCTGTATAGCATTTTATGTTATAAGAAGGTGAGAGAATATAAAGGTGCCCCAAACATGGCCC
106619 T C S AAACTTGCTGTATAGCATTTTATGTTACAGAGAAGGTGAGAGAATATAAAGGTGCCCCAAACATGGCCC

FIGURE 129G

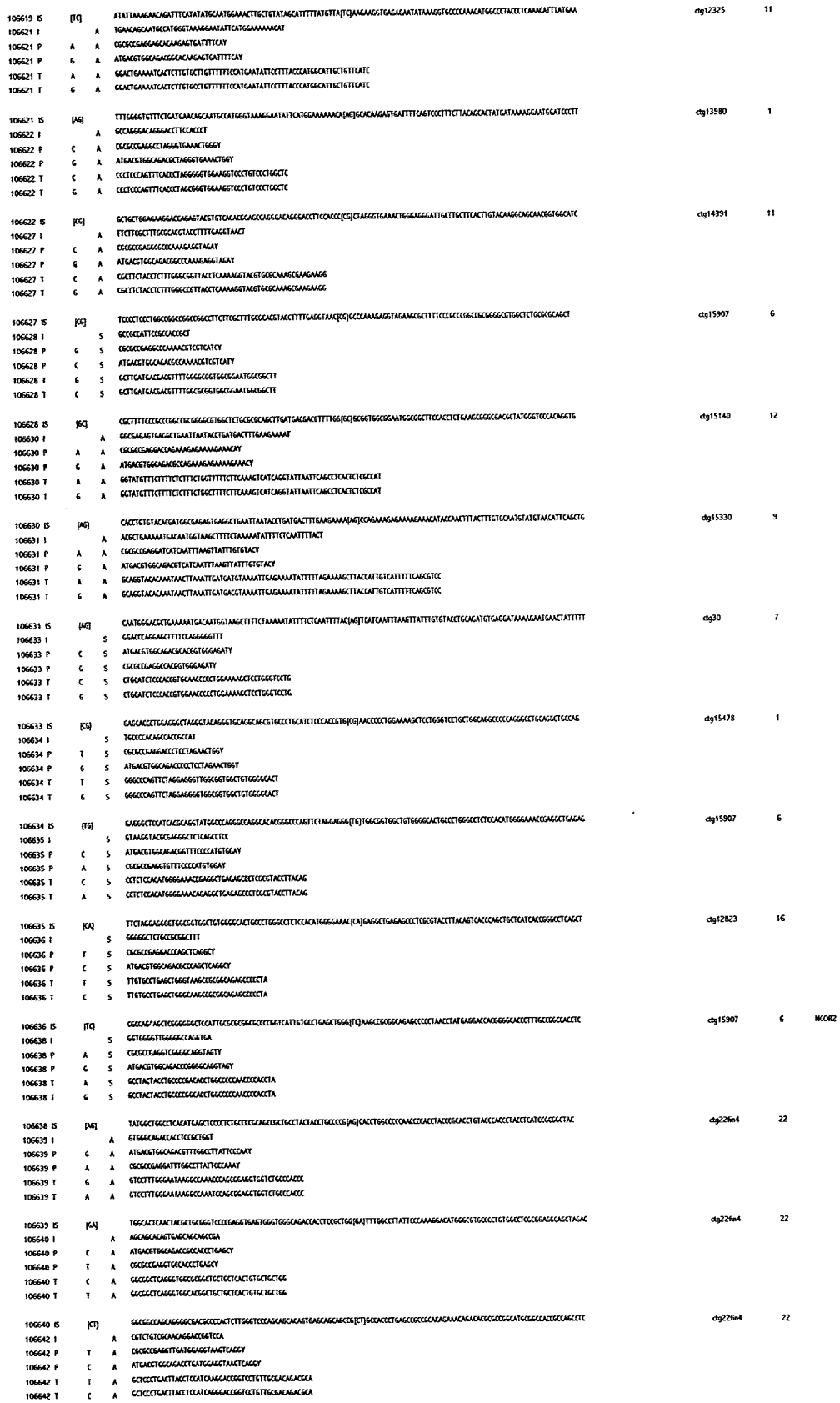
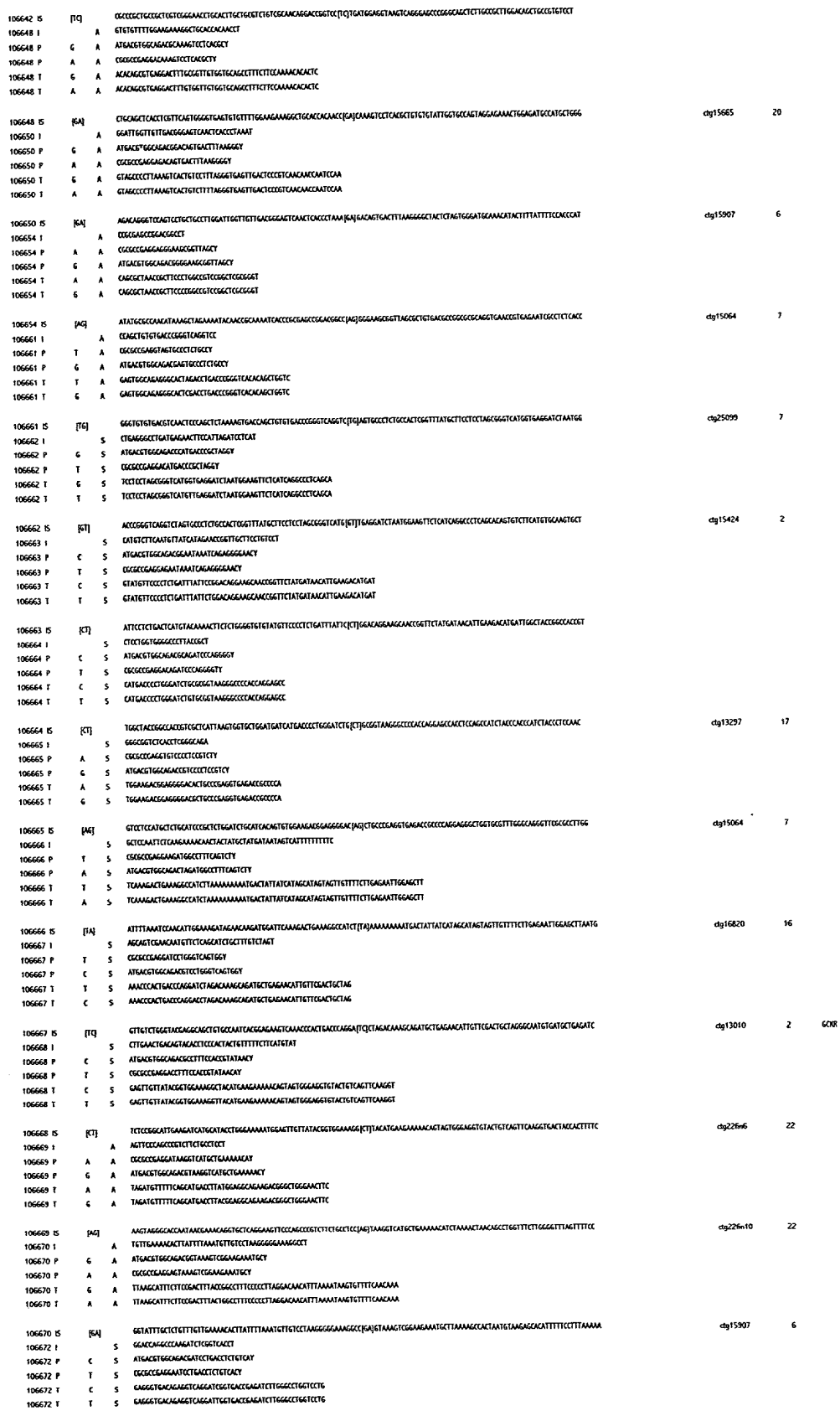

106619 IS [TC] ATATTAAAGAACAGATTTCATATATGCAATGGAAACTTGCTGTATAGCATTTTTATGTTA[TC]AAGAAGGTGAGAGAATATAAAGGTGCCCCAAACATGGCCCTACCCTCAAACATTTATGAA ctg12325 11
106621 I A TGAACAGCAATGCCATGGGTAAAGGAATATTCATGGAAAAAACAT
106621 P A A CGCGCCGAGGAGCACAAGAGTGATTTTCAY
106621 P G A ATGACGTGGCAGACGGCACAAGAGTGATTTTCAY
106621 T A A GGACTGAAAATCACTCTTGTGCTGTTTTTTCCATGAATATTCCTTTACCCATGGCATTGCTGTTCATC
106621 T G A GGACTGAAAATCACTCTTGTGCCTGTTTTTTCCATGAATATTCCTTTACCCATGGCATTGCTGTTCATC
106621 IS [AG] TTTGGGGTGTTTCTGATGAACAGCAATGCCATGGGTAAAGGAATATTCATGGAAAAAACA[AG]GCACAAGAGTGATTTTCAGTCCCTTTCTTACAGCACTATGATAAAAGGAATGGATCCCTT ctg13980 1
106622 I A GCCAGGGACACAGGCACCTTCCACCCT
106622 P C A CGCGCCGAGGCCTAGGGTGAAACTGGGY
106622 P G A ATGACGTGGCAGACGCTAGGGTGAAACTGGY
106622 T C A CCCTCCCAGTTTCACCCTAGGGGGTGGAAGGTCCCTGTCCCTGGCTC
106622 T G A CCCTCCCAGTTTCACCCTAGCGGGTGGAAGGTCCCTGTCCCTGGCTC
106622 IS [CG] GCTGCTGGAGAAGAACAGCAGAGTACCTGTCACACGGAGCCAGGGACAGGGACCTTCCACCC[CG]CTAGGGTGAAACTGGGAGGGATTGCTTGCTTCACTTGTACAAGGCAGCAACGGTGGCATC ctg14391 11
106627 I A TTCTTGGCTTTGCGCACGTACCTTTTGAGGTAACT
106627 P C A CGCGCCGAGGCCCCCAAAGAGGTAGAY
106627 P G A ATGACGTGGCAGACGGCCCAAAGAGGTAGAY
106627 T C A CGCTTCTACCTCTTTGGGCGGTTACCTCAAAGGTACGTGCGCAAAGCGAAGAAGG
106627 T G A CGCTTCTACCTCTTTGGGCCGTTACCTCAAAGGTACGTGCGCAAAGCGAAGAAGG
106627 IS [CG] TCCCCTCCCTGGCCGGCCGGCCGGCCTTCTTTGGCTTTGCGCACGTACCTTTTGAGGTAAC[CG]GCCCAAAGAGGTAGAAGCGCTTTTCCCGCCCGGCCGCGGGCGTGGCTCTGCGCGCAGCT ctg15907 6
106628 I S GCCGCCATTCCGCCACCGCT
106628 P G S CGCGCCGAGGCCCAAAACGTCGTCATCY
106628 P C S ATGACGTGGCAGACGCCAAAACGTCGTCATY
106628 T G S GCTTGATGACGACGTTTTGGGGCGGTGGCGGAATGGCGGCTT
106628 T C S GCTTGATGACGACGTTTTGGCGCGGTGGCGGAATGGCGGCTT
106628 IS [GC] CGCTTTCCCGCCGGCCGCGGGGGCTGGCTCTGCGCGCAGCTTGATGACGACGTTTTGG[GC]GCGGTGGCGGAATGGCGGCTTCCACCTCTGAAGCGGGCGACGCTATGGGTCCCACAGGTG ctg15140 12
106630 I A GGCGAGAGTGAGGCTGAATTAATACCTGATGACTTTGAAGAAAAT
106630 P A A CGCGCCGAGGACCAGAAAGAGAAAAGAAACAY
106630 P G A ATGACGTGGCAGACGCCAGAAAGAGAAAAGAAACT
106630 T A A GGTATGTTTCTTTTCTCTTTCTGGCTTTTCTTCAAAGTCATCAGGTATTAATTCAGCCTCACTCTCGCCAT
106630 T G A GGTATGTTTCTTTTCTCTTTCTGGCTTTTCTTCAAAGTCATCAGGTATTAATTCAGCCTCACTCTCGCCAT
106630 IS [AG] CACCTGTGTACACGATGGCGAGAGTGAGGCTGAATTAATACCTGATGACTTTGAAGAAAA[AG]CCAGAAAGAGAAAAGAAACATACCAACTTTACTTTGTGCAATGTATGTAACATTCAGCTG ctg15330 9
106631 I A ACGCTGAAAAATGACAATGGTAAGCTTTTCTAAAAATATTTTCTCAATTTTACT
106631 P A A CGCGCCGAGGATCATCAATTTAAGTTATTTGTGTACY
106631 P G A ATGACGTGGCAGACGTCATCAATTTAAGTTATTTGTGTACY
106631 T A A GCAGGTACACAAATAACTTAAATTGATGATGTAAAATTGAGAAAATATTTTTAGAAAAGCTTACCATTGTCATTTTTCAGCGTCC
106631 T G A GCAGGTACACAAATAACTTAAATTGATGACGTAAAATTGAGAAAATATTTTTAGAAAAGCTTACCATTGTCATTTTTCAGCGTCC
106631 IS [AG] CAATGGGACGCTGAAAAATGACAATGGTAAGCTTTTCTAAAAATATTTTCTCAATTTTAC[AG]TCATCAATTTAAGTTATTTGTGTACCTGCAGATGTGAGGATAAAAGAATGAACTATTTTT ctg30 7
106633 I S GGACCCAGGAGCTTTTCCAGGGGGTTT
106633 P C S ATGACGTGGCAGACGCACGGTGGGAGATY
106633 P G S CGCGCCGAGGCCACGGTGGGAGATY
106633 T C S CTGCATCTCCCCACCGTGCAACCCCCTGGAAAAGCTCCTGGGGTCCTG
106633 T G S CTGCATCTCCCCACCGTGGAACCCCTGGAAAAGCTCCTGGGTCCTG
106633 IS [CG] GAGCAACCCTGGAGGGCTAGGGTAEAGGGTGCAGGCAGCGTGCCCTGCATCTCCCACCGTG[CG]AACCCCCTGGAAAAGCTCCTGGGTCCTGCTGGCAGGCCCCCAGGGCCTGCAGGCTGCCAG ctg15478 1
106634 I S TGCCCCACAGCCACCGCCAT
106634 P T S CGCGCCCAAGACCCTCCTAGAACTGGY
106634 P G S ATGACGTGGCAGACCCCTCCTAGAACTGGY
106634 T T S GGGCCCAGTTCTAGGAGGGTTGGCGGTGCTGTGGGGCACT
106634 T G S GGGCCCAGTTCTAGGAGGGTGGCGGTGCTGTGGGGCACT
106634 IS [TG] GAGGGCTCCATCACGCAGGTATGGCCCAGGGCCAGGCACACGGGCCCAGTTCTAGGAGGG[TG]TGGCGGTGGCTGTGGGGCACTGCCCTGGGCCTCTCCACATGGGGAAACCGAGGCTGAGAG ctg15907 6
106635 I S GTAAGGTACGCGAGGGCCTCTCAGCCTCC
106635 P C S ATGACGTGGCAGACGGTTTCCCCATGTGGAY
106635 P A S CGCGCCGAGGTGTTTCCCCATGTGGAY
106635 T C S CCTCTCCACATGGGGAAACCGAGGCTGAGAGCCCTCGCGTACCTTACAG
106635 T A S CCTCTCCACATGGGGAAACAGAGGCTGAGAGCCCTCGCGTACCTTACAG
106635 IS [CA] TTCTAGGAGGGGTGGCGGTGGCTGTGGGGCACTGCCCTGGGCCTCTCCACATGGGGAAAC[CA]GAGGCTGAGAGCCCTCGCGTACCTTACAGTCACCCAGCTGCTCATCACCGGGCCTCAGCT ctg12823 16
106636 I S GGGGGCTCTGCCGCGACTTT
106636 P T S CGCGCCGAGGACCCAGCTCAGGCY
106636 P C S ATGACGTGGCAGACGCCCAGCTCAGGCY
106636 T T S TTGTGCCTGAGCTGGGTAAGCCGCGGCAGAGCCCCTA
106636 T C S TTGTGCCTGAGCTGGGCAAGCCGCGGCAGAGCCCCTA
106636 IS [TC] CGCCAG'AGCTGGGGGGGCTCCATTGCGCGCGGCGCCCCGGTCATTGTGCCTGAGCTGGG[TC]AAGCCGCGGCAGAGCCCCTAACCTATGAGGACCACGGGGCACCCTTTGCCGGCCACCTC ctg15907 6 MCOR2
106638 I S GGTGGGGTTGGGGGCCAGGTGA
106638 P A S CGCGCCGAGGTGGGGCAGGTAGTY
106638 P G S ATGACGTGGCAGACCCGGGCAGGTAGY
106638 T A S GCCTACTACCTGCCCCGAACACCTGGCCCCCAACCCCACCTA
106638 T G S GCCTACTACCTGCCCCGGACCTGGCCCCCAACCCCACCTA
106638 IS [AG] TATGGCTGGCCTCACATGAGCTCCCCTCTGCCCCGCAGCCGCTGCCTACTACCTGCCCCG[AG]CACCTGGCCCCCAACCCCACCTACCCGCACCTGTACCCACCCTACCTCATCCCGGGCTAC ctg22fin4 22
106639 I A GTGGGCAGACCACCTCCGCTGGT
106639 P G A ATGACGTGGCAGACGTTTGGCCTTATTCCCAAY
106639 P A A CGCGCCGAGGATTTGGCCTTATTCCCAAAY
106639 T G A GTCCTTTGGGAATAAGGCCAAACCCAGCGGAAGGTGGTCTGCCCACCC
106639 T A A GTCCTTTGGGAATAAGGCCAAATCCAGCGGAAGGTGGTCTGCCCACCC
106639 IS [GA] TGGCACTCAACTACGCTGCGGGTCCCCCGAGGTGAGTGGGTGGGCAGACCACCTCCGCTGG[GA]TTTGGCCTTATTCCCAAAGGACATGGGCGTGCCCCTGTGGCCTCGCGGAGGCAGCTAGAC ctg22fin4 22
106640 I A AGCAGCACAGTGAGCAGCAGCCGA
106640 P C A ATGACGTGGCAGACCGCCACCCTGAGCT
106640 P T A CGCGCCGAGGTGCCACCCTGAGCY
106640 T C A GGCGGCTCAGGGTGGCGCGGCTGCTGCTCACTGTGCTGCTGG
106640 T T A GGCGGCTCAGGGTGGCAGGGCTGCTGCTCACTGTGCTGCTGG
106640 IS [CT] GGCGGCCAGCAGGGGCGACGCCCCACTCTTGGGTCCCAGCAGCACAGTGAGCAGCAGCCG[CT]GCCACCCTGAGCCGCCGCACAGAAACAGACACGCGCCGGCATGCGGCCACCGCCAGCCTC ctg22fin4 22
106642 I A CGTCTGTCGCAACAGGACCGGTCCA
106642 P T A CGCGCCGAGGTTGATGGAGGTAAGTCAGGY
106642 P C A ATGACGTGGCAGACCTGATGGAGGTAAGTCAGGY
106642 T T A GCTCCCTGACTTACCTCCATCAGGCACCGGTCCTGTTGCGACAGACGCA
106642 T C A GCTCCCTGACTTACCTCCATCAGGCACCGGTCCTGTTGCGACAGACGCA

FIGURE 129G



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FIGURE 129G

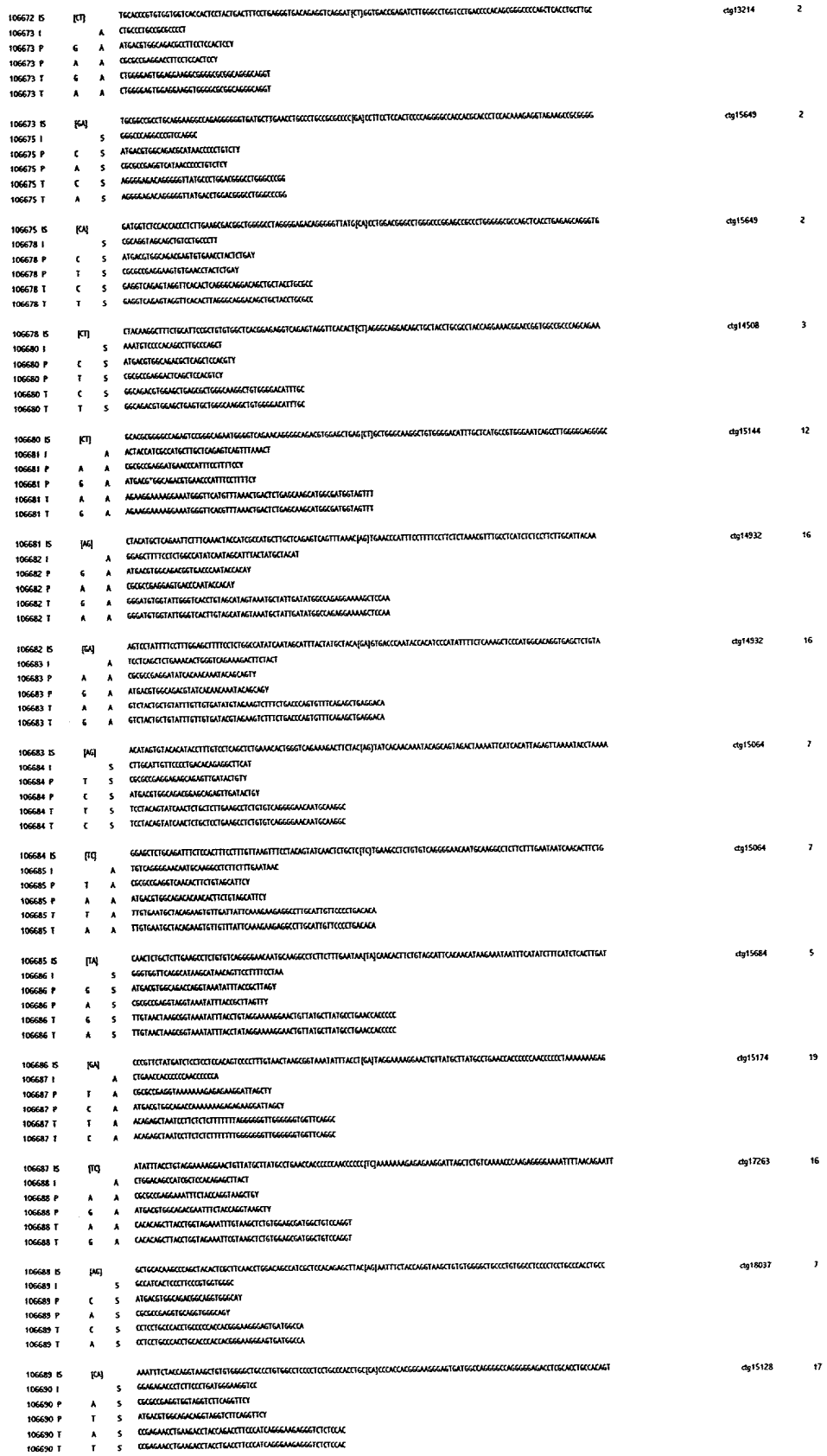
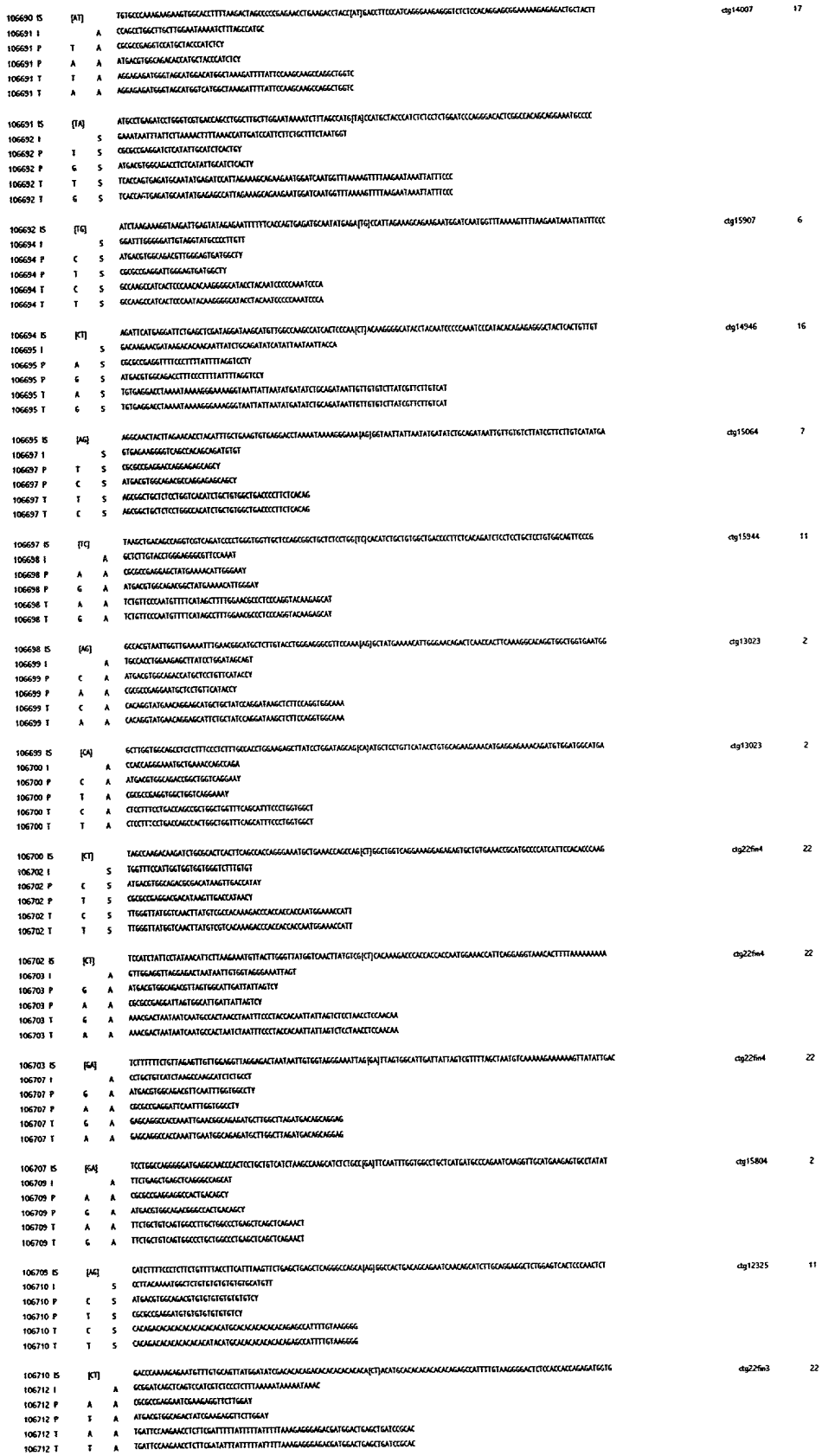

106672 IS [CT] TGCACCCGTGTGGTGGTCACCACTCCTACTGACTTTCCTGAGGGTGACAGAGGTCAGGATICTJGGTGACCGAGATCTTGGGCCTGGTCCTGACCCCACAGGGGCCCCAGCTCACCTGCTTGC ctg13214 2
106673 I A CTGCCCTGCCGGCCCCCT
106673 P G A ATGACGTGGCAGACGCCTTCCTCCACTCCY
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106673 T G A CTGGGGAGTGGAGGAAGCGGGGCGCGGCAGGGCAGGT
106673 T A A CTGGGGAGTGGAGGAAGCTGGGGCGCGGCAGGGCAGGT
106673 IS [GA] TGCGGCCGCCTGCAGGAAGGCCAGAGGGGGGTGATGCTTGAACCTGCCCTGCCGCCCC[GA]CCTTCCTCCACTCCCCAGGGGCCACCACGCACCCTCCACAAAGAGGTAGAAGCCGCGGGG ctg15649 2
106675 I S GGGCCCAGGCCGGTCCAGGC
106675 P C S ATGACGTGGCAGACGCATAACCCCCTGTCTY
106675 P A S CGCGCCCAGGTCATAACCCCCTGTCTCY
106675 T C S AGGGGAGACAGGGGGTTATGCCCTGGACGGGCCTGGGCCCCG
106675 T A S AGGGGAGACAGGGGGTTATGACCTGGACGGGCCTGGGCCCCG
106675 IS [CA] GATGGTCTCCACCACCCTCTTGAAGCGACGGCTGGGGCCTAGGGGAGACAGGGGGTTATG[CA]CCTGGACGGGCCTGGGCCCGGCAGCCGCCCTGGGGGCGCCAGCTCACCTGAGAGCAGGGTG ctg15649 2
106678 I S CGCAGGTAGCAGCTGTCCTGCCCTT
106678 P C S ATGACGTGGCAGACGAGTGTGAACCTACTCTGAY
106678 P T S CGCGCCCAGGAAGTGTGAACCTACTCTGAY
106678 T C S GAGGTCAGAGTAGGTTCACACTCAGGGCAGGACAGCTGCTACCTGCGCC
106678 T T S GAGGTCAGAGTAGGTTCACACTTAGGGCAGGACAGCTGCTACCTGCGCC
106678 IS [CT] CTACAAGGCTTTCTGCATTCCGCTGTGTGGCCTCACGGAGAGGTCAGAGTAGGTTCACACT[CT]AGGGCAGGACAGCTGCTACCTGCGCCTACCAGGAAACGGACGGTGGCCGCCCAGCAGAA ctg14508 3
106680 I S AAATGTCCCCACAGCCTTGCCCAGCT
106680 P C S ATGAGGTGGCAGACGCTCAGCTCCACGTY
106680 P T S CGCGCCCAGGACTCAGCTCCACGTY
106680 T C S GGCAGACGTGGAGCTGAGCGCTGGGCAAGGCTGTGGGGACATTTGC
106680 T T S GGCAGACGTGGAGCTGAGTGCTGGCCAAGGCTGTGGGGACATTTGC
106680 IS [CT] GCACGCGGGGCCAGAGTCCCGGCAGAATGGGGTCAGAACAGGGGCAGACGTGGAGCTGAG[CT]GCTGGGCAAGGCTGTGGGGACATTTGCTCATGCCGTGGGAATCAGCCTTGGGGGAGGGGC ctg15144 12
106681 I A ACTACCATCGCCCATGCTTGCTCAGAGTCAGTTTAAACT
106681 P A A CGCGCCGAGGATGAACCCATTTCCTTTTCCY
106681 P G A ATGAGC*GGCAGACGTGAACCCATTTCCTTTTCY
106681 T A A AGAAGGAAAAGCAAATGGGTTCATGTTTAAACTGACTCTGAGCAAGCATGGCGATGGTAGTTT
106681 T G A AGAAGGAAAAGCAAATGGGTTCAGTTTAAACTGACTCTGAGCAAGCATGGCGATGGTAGTTT
106681 IS [AG] CTACATGCTCAGAATTCTTTCAAACTACCATCGCCATGCTTGCTCAGAGTCAGTTTAAAC[AG]TGAACCCATTTCCTTTTCCTTCTCTAAACGTTTGCCTCATCTCTCCTTCTTGCATTACAA ctg14932 16
106682 I A GGAGCTTTTCCTCTGGCCATATCAATAGCATTTACTATGCTACAT
106682 P G A ATGACGTGGCAGACGGTGACCCAATACCACAY
106682 P A A CGCGCTGAGGAGTGACCCAATACCACAY
106682 T G A GGGATGTGGTATTGGGTCACTTGTAGCATAGTAAATGCTATTGATATGGCCAGAGGAAAAGCTCCAA
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106682 IS [GA] AGTCCTATTTTCCTTTGGAGCTTTTCCTCTGGCCATATCAATAGCATTTACTATGCTACA[GA]GTGACCCAATACCACATCCCATATTTTCTCAAAGCTCCCATGGCACAGGTGAGCTCTGTA ctg14932 16
106683 I A TCCTCAGCTCTGAAACACTGGGTCAGAAAGACTTCTACT
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106683 P G A ATGACGTGGCAGACGTATCACAACAAATACAGCAGY
106683 T A A GTCTACTGCTGTATTTGTTGTGATATGTAGAAGTCTTTCTGACCCAGTGTTTCAGAGCTGAGGACA
106683 T G A GTCTACTGCTGTATTTGTTGTGATACGTAGAAGTCTTTCTGACCCAGTGTTTCAGAGCTGAGGACA
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106684 I S CTTGCATTGTTCCCCTGACACAGAGGCTTCAT
106684 P T S CGCGCCCAGGAGAGCAGAGTTGATACTGTY
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106684 T C S TCCTACAGTATCAACTCTGCTCCTGAAGCCTCTGTGTCAGGGGAACAATGCAAGGC
106684 IS [TC] GGAGCTCTGCAGATTTCTCCACTTTCCTTTGTTAAGTTTCCTACAGTATCAACTCTGCTC[TC]TGAAGCCTCTGTGTCAGGGGAACAATGCAAGGCCTCTCTTTGAATAATCAACACTTCTG ctg15064 7
106685 I A TGTCAGGGGAACAATGCAAGGCCTCTTCTTTGAATAAC
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106685 T A A TTGTGAATGCTACAGAAGTGTTGTTTATTCAAAGAAGAGGCCTTGCATTGTTCCCCTGACACA
106685 IS [TA] CAACTCTGCTCTTGAAGCCTCTGTGTCAGGGGAACAATGCAAGGCCTCTTCTTTGAATAA[TA]CAACACTTCTGTAGCATTCACAACATAAGAAATAATTTCATATCTTTCATCTCACTTGAT ctg15684 5
106686 I S GGGTGGTTCAGGCATAAGCATAACAGTTCCTTTTCCTAA
106686 P G S ATGACGTGGCAGACAGGTAAATATTTACCGCTTAGY
106686 P A S CGCGCCCAGGTAAGTAAATATTTACCGCTTAGTTY
106686 T G S TTGTAACTAAGGGTAAATATTTACCTGTAGGAAAAGGAACTGTTATGCTTATGCCTGAACCACCCCC
106686 T A S TTGTAACTAAGGGTAAATATTTACCTATAGGAAAAGGAACTGTTATGCTTATGCCTGAACCACCCCC
106686 IS [GA] CCCGTTCTATGATCTCCTCCTCCACAGTCCCCTTTGTAACTAAGCGGTAAATATTTACCT[GA]TAGGAAAAGGAACTGTTATGCTTATGCCTGAACCACCCCCCAACCCCCCTAAAAAAAGAG ctg15174 19
106687 I A CTGAACCACCCCCCAACCCCCCA
106687 P T A CGCGCCCAGGTAAAAAAAGAGAGAAGGATTAGCTY
106687 P C A ATGACGTGGCAGACCAAAAAAAGAGAGAAGCATTAGCY
106687 T T A ACAGAGCTAATCCTCTCTCTTTTTTTAGGGGGGTTGGGGGGTGGTTCAGGC
106687 T C A ACAGAGCTAATCCTCTCTCTTTTTTTGGGGGGGTTGGGGGGTGGTTCAGGC
106687 IS [TC] ATATTTACCTGTAGGAAAAGGAACTGTTATGCTTATGCCTGAACCACCCCCCAACCCCCCTC[TC]AAAAAAAGAGAGAAGGATTAGCTCTGTCAAAACCCAAGAGGGGAAAATTTTAACAGAATT ctg17263 16
106688 I A CTGGACAGCCATCGCTCCACAGAGCTTACT
106688 P A A CGCGCCCAGGAAATTTCTACCAGGTAAGCTGY
106688 P G A ATGACGTGGCAGACGAATTTCTACCAGGTAAGCTY
106688 T A A CACACAGCTTACCTGGTAGAAATTTGTAAGCTCTGTGGAGCGATGGCTGTCCAGGT
106688 T G A CACACAGCTTACCTGGTAGAAATTCGTAAGCTCTGTGGAGCGATGGCTGTCCAGGT
106688 IS [AG] GCTGCACAAGCCCAGCTACACTCGCTTCAACCTGGACAGCCATCGCTCCACAGAGCTTAC[AG]AATTTCTACCAGGTAAGCTGTGTGGGGCTGCCCTGTGGCCTCCCCTCCTGCCCACCTGCC ctg18037 7
106689 I S GCCATCACTCCCTTCCCGTGGTGGGC
106689 P C S ATGACGTGGCAGACGGCAGGTGGGCAY
106689 P A S CGCGCCCAGGTGCAGGTGGGCAGY
106689 T C S CCTCCTGCCCACCTGCCCCACACCAGGGAAGGGAGTGATGGCCA
106689 T A S CCTCCTGCCCACCTGCACCCACACCAGGGAAGGGAGTGATGGCCA
106689 IS [CA] AAATTTCTACCAGGTAAGCTGTGTGGGGCTGCCCTGTGGCCTCCCCTCCTGCCCACCTGC[CA]CCCACCACGGGAAGGGAAGTGATGGCCAGGGGCCAGGGGGAGACCTCGCACCTGCCACAGT ctg15128 17
106690 I S GGAGAGACCCTCTTCCCTGATGGGAAGGTCC
106690 P A S CGCGCCGAGGTGGTAGGTCCTCAGGTTCY
106690 P T S ATGACGTGGCAGACAGGTAGGTCTTCAGGTTCY
106690 T A S CCGAGAACCTGAAGACCTACCAGACCTTCCCATCAGGGAAGAGGGTCTCTCCAC
106690 T T S CCGAGAACCTGAAGACCTACCTGACCTTCCCATCAGGGAAGAGGGTCTCTCCAC

FIGURE 129G


106690 IS [AT] TGTGCCCAAAGAAGAAGTGGCACCTTTTAAGACTAGCCCCCGAGAACCTGAAGACCTACC[AT]GACCTTCCCATCAGGGAAGAGGGTCTCTCCACAGGAGGCGAAAAAGAGAGACTGCTACTT ctg14007 17
106691 I A CCAGCCTGGCTTGCTTGGAATAAAATCTTTAGCCATGC
106691 P T A CGCGCCGAGGTCCATGCTACCCATCTCY
106691 P A A ATGACGTGGCAGACACCATGCTACCCATCTCY
106691 T T A AGGAGAGATGGGTAGCATGGACATGGCTAAAGATTTTATTCCAAGCAAGCCAGGCTGGTC
106691 T A A AGGAGAGATGGGTAGCATGGTCATGGCTAAAGATTTTATTCCAAGCAAGCCAGGCTGGTC
106691 IS [TA] ATGCCTGAGATCCTGGGTCGTGACCAGCCTGGCTTGCTTGGAATAAAATCTTTAGCCATG[TA]CCATGCTACCCATCTCTCCTCTGGATCCCAGGGACACTCGGCCACAGCAGGAAATGCCCC
106692 I S GAAATAATTTATTCTTAAAACTTTTAAACCATTGATCCATTCTTCTGCTTTCTAATGGT
106692 P T S CGCGCCGAGGATCTCATATTGCATCTCACTGY
106692 P G S ATGACGTGGCAGACCTCTCATATTGCATCTCACTY
106692 T T S TCACCAGTGAGATGCAATATGAGATCCATTAGAAAGCAGAAGAATGGATCAATGGTTTAAAAGTTTTAAGAATAAATTATTTCCC
106692 T G S TCACCAGTGAGATGCAATATGAGAGCCATTAGAAAGCAGAAGAATGGATCAATGGTTTAAAAGTTTTAAGAATAAATTATTTCCC
106692 IS [TG] ATCTAAGAAAGGTAAGATTGAGTATAGAGAATTTTTTCACCAGTGAGATGCAATATGAGA[TG]CCATTAGAAAGCAGAAGAATGGATCAATGGTTTAAAAGTTTTAAGAATAAATTATTTCCC ctg15907 6
106694 I S GGATTTGGGGGATTGTAGGTATGCCCCTTGTT
106694 P C S ATGACGTGGCAGACGTTGGGAGTGATGGCTY
106694 P T S CGCGCCGAGGATTGGGAGTGATGGCTY
106694 T C S GCCAAGCCATCACTCCCAACACAAGGGGCATACCTACAATCCCCCAAATCCCA
106694 T T S GCCAAGCCATCACTCCCAATACAAGGGGCATACCTACAATCCCCCAAATCCCA
106694 IS [CT] AGATTCATGAGGATTCTGAGCTCGATAGGATAAGCATGTTGGCCAAGCCATCACTCCCAA[CT]ACAAGGGGCATACCTACAATCCCCCAAATCCCATACACAGAGAGGGCTACTCACTGTTGT ctg14946 16
106695 I S GACAAGAACGATAAGACACACAACAATTATCTGCAGATATCATATTAATAATTACCA
106695 P A S CGCGCCGAGGTTTCCCTTTATTTTAGGTCCTY
106695 P G S ATGACGTGGCAGACCTTCCCTTTTATTTTAGGTCCY
106695 T A S TGTGAGGACCTAAAATAAAAGGGAAAAGGTAATTATTAATATGATATCTGCAGATAATTGTTGTGTCTATCGTTCTTGTCAT
106695 T G S TGTGAGGACCTAAAATAAAAGGGAAAGGGTAATTATTAATATGATATCTGCAGATAATTGTTGTGTCTATCGTTCTTGTCAT
106695 IS [AG] AGGCAACTACTTAGAACACCTACATTTGCTGAAGTGTGAGGACCTAAAATAAAAGGGAAA[AG]GGTAATTATTAATATGATATCTGCAGATAATTGTTGTGTCTATCGTTCTTGTCATATGA ctg15064 7
106697 I S GTGACAAGGGGTCAGCCACAGCAGATGTGT
106697 P T S CGCGCCCAGGACCAGGAGAGCAGCY
106697 P C S ATGACGTGGCAGACGCCAGGAGAGCAGCY
106697 T T S AGCGGCTGCTCTCCTGGTCACATCTGCTGTGGCTGACCCCTTCTCACAG
106697 T C S AGCGGCTGCTCTCCTGGCCACATCTGCTGTGGCTGACCCCTTCTCACAG
106697 IS [TC] TAAGCTGACAGCCAGGTCGTCAGATCCCCTGGGTGGTTGCTCCAGCGGCTGCTCTCCTGG[TC]CACATCTGCTGTGGCTGACCCCTTCTCACAGATCTCCTCCTGCTCCTGTGGCAGTTCCCG ctg15944 11
106698 I A GCTCTTGTACCTGGGAGGGCGTTCCAAAT
106698 P A A CGCGCCGAGGAGCTATGAAAACATTGGGAAT
106698 P G A ATGACGTGGCAGACGGCTATGAAAACATTGGGAT
106698 T A A TCTGTTCCCAATGTTTTCATAGCTTTTGGAACGCCCTCCCAGGTACAAGAGCAT
106698 T G A TCTGTTCCCAATGTTTTCATAGCCTTTGGAACGCCCTCCCAGGTACAAGAGCAT
106698 IS [AG] GCCACGTAATTGGTTGAAAATTTGAACGGCATGCTCTTGTACCTGGGAGGGCGTTCCAAA[AG]GCTATGAAAACATTGGGAACAGACTCAACCACTTCAAAGGCACAGGTGGCTGGTGAATGG ctg13023 2
106699 I A TGCCACCTGGAAGAGCTTATCCTGGATAGCAGT
106699 P C A ATGACGTGGCAGACCATGCTCCTGTTCATACCY
106699 P A A CGCGCCCAGGAATGCTCCTGTTCATACCY
106699 T C A CACAGGTATGAACAGGAGCATGCTGCTATCCAGGATAAGCTCTTCCAGGTGGCAAA
106699 T A A CACAGGTATGAACAGGAGCATTCTGCTATCCAGGATAAGCTCTTCCAGGTGGCAAA
106699 IS [CA] GCTTGGTGGCAGCCTCTCTTTCCCTCTTTGGCACCTGGAAGAGCTTATCCTGGATAGCAG[CA]ATGCTCCTGTTCATACCTGTGCAGAAGAAACATGAGGAGAAACAGATGTGGATGGCATGA ctg13023 2
106700 I A CCACCAGGGAAATGCTGAAACCAGCCAGA
106700 P C A ATGACGTGGCAGACCGGCTGGTCAGGAAY
106700 P T A CGCGCCGAGGTGGCTGGTCAGGAAAY
106700 T C A CTCCTTCCTGACCAGCCACTGGCTGGTTTCAGCATTTCCCTGGTGGCT
106700 T T A CTCCTTCCTGACCAGCCACTGGCTGGTTTCAGCATTTCCCTGGTGGCT
106700 IS [CT] TAGCCAAGACAAGATCTGGCGCACTCACTTCAGCCACCAGGGAAATGCTGAAACCAGCCAG[CT]GGCTGGTCAGGAAAGGAGACAAGTGCTGTGAAACCGCATGCCCCATCATTCCACACCCAAG ctg22fm4 22
106702 I S TGGTTTCCATGGTGGTGGTGGGTCTTTGTGT
106702 P C S ATGACGTGGCAGACGCGACATAAGTTGACCATAY
106702 P T S CGCGCCCAGGACGACATAAGTTGACCATAACY
106702 T C S TTGGGTTATGGTCAACTTATGTCGCCACAAAGACCCACCACCACCAATGGAAACCATT
106702 T T S TTGGGTTATGGTCAACTTATGTCGTCACAAAGACCCACCACCACCAATGGAAACCATT
106702 IS [CT] TCCATCTATTCCTATAACATTCTTAAGAAATGTTACTTGGGTTATGGTCAACTTATGTCG[CT]CACAAAGACCCACCACCACCAATGGAAACCATTCAGGAGGTAAACACTTTTAAAAAAAA ctg22fm4 22
106703 I A GTTGGAGGTTAGGAGACTAATAATTGTGGTAGGGAAATTAGT
106703 P G A ATGACGTGGCAGACGTTAGTGGCATTGATTATTAGTCY
106703 P A A CGCGCCGAGGATTAGTGGCATTGATTATTAGTCY
106703 T G A AAACGACTAATAATCAATGCCACTAACCTAATTTCCCTACCACAATTATTAGTCTCCTAACCTCCAACAA
106703 T A A AAACGACTAATAATCAATGCCACTAATCTAATTTCCCTACCACAATTATTAGTCTCCTAACCTCCAACAA
106703 IS [GA] TCTTTTTCTGTTAGAGTTGTTGGAGGTTAGGAGACTAATAATTGTGGTAGGGAAATTAG[GA]TTAGTGGCATTGATTATTAGTCGTTTTAGCTAATGTCAAAAAGAAAAAAGTTATATTGAC ctg22fm4 22
106707 I A CCTGCTGTCATCTAAGCCAAGCATCTCTGCCT
106707 P G A ATGACGTGGCAGACGTTCAATTTGGGTGGCCTY
106707 P A A CGCGCCGAGGATTCAATTTGGTGGCCTY
106707 T G A GAGCAGGCCACCAAATTGAACGGCAGAGATGCTTGGCTTAGATGACAGCAGGAG
106707 T A A GAGCAGGCCACCAAATTGAATGGCAGAGATGCTTGGCTTAGATGACAGCAGGAG
106707 IS [GA] TCCTGGCCAGGGGGATGAGGCAACCCACTCCTGCTGTCATCTAAGCCAAGCATCTCTGCC[GA]TTCAATTTGGTGGCCTGCTCATGATGCCCAGAATCAAGGTTGCATGAACAGTGCCTATAT ctg15804 2
106709 I A TTCTGAGCTGAGCTCAGGGCCAGCAT
106709 P A A CGCGCCGAGGAGGCCACTGACAGCY
106709 P G A ATGACGTGGCAGAGGGCCACTGACAGCY
106709 T A A TTCTGCTGTCAGTGGCCTTGCTGGCCCTGAGCTCAGCTCAGAACT
106709 T G A TTCTGCTGTCAGTGGCCCTGCTGGCCCTGAGCTCAGCTCAGAACT
106709 IS [AG] CATCTTTCCCCTCTCTGTTTTACCTTCATTTAAGTTCTGAGCTGAGCTCAGGGCCAGCA[AG]GGCCACTGACAGCAGAATCAACAGCATCTTGCAGGAAGGCTCTGGAGTCACTCCCAACTCT ctg12325 11
106710 I S CCTTACAAAATGGCTCTGTGTGTGTGTGTGCATGTT
106710 P C S ATGACGTGGCAGACGTGTGTGTGTGTGTGTCY
106710 P T S CGCGCCGAGGATGTGTGTGTGTGTGTCY
106710 T C S CACAGACACACACACACACACATGCACACACACACACAGAGCCATTTTGTAAGGGG
106710 T T S CACAGACACACACACACACATACATGCACACACACACACAGAGCCATTTTGTAAGGGG
106710 IS [CT] GACCCAAAAGAGAATGTTTGTGCAGTTATGGATATCGACACACAGACACACACACACACA[CT]ACATGCACACACACACACACAGAGCCATTTTGTAAGGGGACTCTCCACCACCAGAGATGGTG ctg22fm3 22
106712 I A GCGGATCAGCTCAGTCCATCGTCTCCCCTCTTTAAAAATAAAAATAAAC
106712 P A A CGCGCCGAGGAATCGAAGAGGTTCTTGGAY
106712 P T A ATGACGTGGCAGACTATCGAAGAGGTTCTTGGAY
106712 T A A TGATTCCAAGAACCTCTTCGATTTTTATTTTTATTTTTAAAGAGGGAGACGATGGACTGAGCTGATCCGCAC
106712 T T A TGATTCCAAGAACCTCTTCGATATTTATTTTTATTTTTAAAGAGGGAGACGATGGACTGAGCTGATCCGCAC

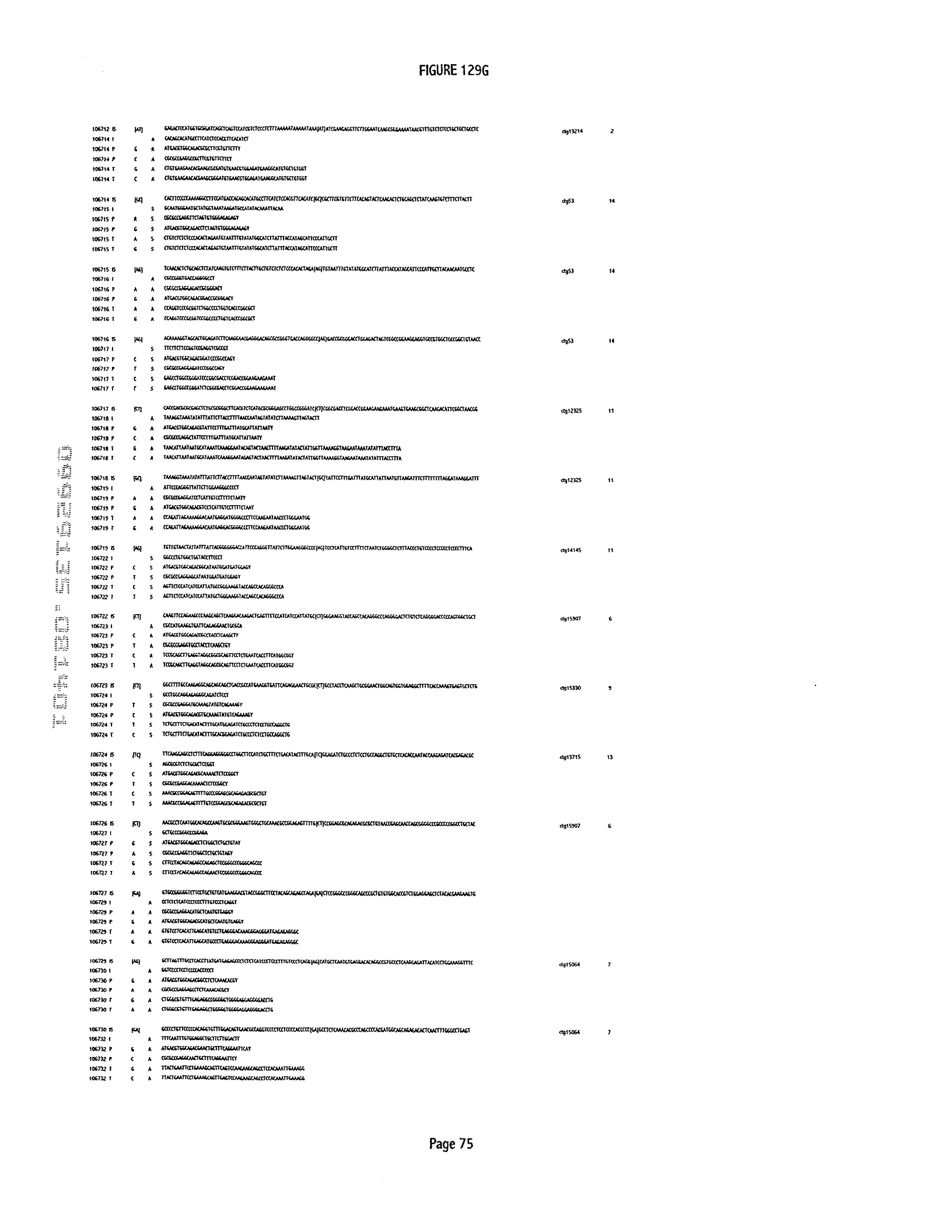

106712 IS [AT] GAGACTCCATGGTGCGGATCAGCTCAGTCCATCGTCTCCCTCTTTAAAAATAAAAATAAA[AT]ATCGAAGAGGTTCTTGGAATCAAGCGGGAAAATAACGTTTGTCTCTCTCTGCTGCTGCCTC ctg13214 2
106714 I A CACAGCACATGCCTTCATCTCCACGTTCACATCT
106714 P G A ATGACGTGGCAGCAGCGCTTCGTGTTCTTY
106714 P C A CGCGCCGAGGCGGCTTCGTGTTCTTCY
106714 T G A CTGTGAAGAACACGAAGCCGCATGTGAACGTGGAGATGAAGGCATGTGCTGTGGT
106714 T C A CTGTGAAGAACACGAAGCCGGGATGTGAACGTGGAGATGAAGGCATGTGCTGTGGT
106715 IS [GC] CACTTCCCCCAAAAGGCCTTCCATGACCACAGCACATGCCTTCATCTCCACGTTCACATC[GC]CGCTTCGTGTTCTTCACAGTACTCAACACTCTGCAGCTCTATCAAGTGTCTTTCTTACTT ctg53 14
106715 I S GCAATGGGAATGCTATGCTAAATAAGATGCCATATACAAATTACAA
106715 P A S CGCGCCGAGGTTCTAGTGTGGGAGAGAGY
106715 P G S ATGACGTGGCAGACCTCTAGTGTGGGAGAGAGY
106715 T A S CTGTCTCTCTCCCACACTAGAATGTAATTTGTATATGGCATCTTATTTACCATAGCATTCCCATTGCTT
106715 T G S CTGTCTCTCTCCCACACTAGAGTGTAATTTGTATATGGCATCTTATTTACCATAGCATTCCCATTGCTT
106715 IS [AG] TCAACACTCTGCAGCTCTATCAAGTGTCTTTCTTACTTGCTGTCTCTCTCCCACACTAGA[AG]TGTAATTTGTATATGGCATCTTATTTACCATAGCATTCCCATTGCTTACAACAATGCCTC ctg53 14
106716 I A CGCCGGGTGACCAGGGGCCT
106716 P A A CGCGCCGAGGAGACCGCGGGACY
106716 P G A ATGACGTGGCAGACGGACCCGCGGGACY
106716 T A A CCAGGTCCCGCGGTCTGGCCCCTGGTCACCCGGCGCT
106716 T G A CCAGGTCCCGCGGTCTGGCCCCTGGTCACCCGGCGCT
106716 IS [AG] ACAAAAGGTAGCACTGGAGATCTTCAAGGAACGAGGGACAGCGCCGGGTGACCAGGGGCCC[AG]GACCGCGGGACCTGGAGACTAGTCGGCCGGAAGGAGGTGCCGTGGCTGCCGGCTGTAACC ctg53 14
106717 I S TTCTTCTTCCGGTCCGAGGTCGCCGT
106717 P C S ATGACGTGGCAGACGAATCCCGGCCAGY
106717 P T S CGCGCCGAGGAGAATCCCGGCCAGY
106717 T C S GAGCCTGGCCGGGATCCCGGCGACCTCGGACCGGAAGAAGAAAT
106717 T T S GAGCTTGGCCGGGATCTCGGGAGCTCGGACCGGAAGAAGAAAT
106717 IS [CT] CACCGACGCGCGAGCTCTGCCGCGGCTTCACGTCTCATGCGCGGGAGCCTGGCCGGGATC[CT]CGGCGACCTCGGACCGGAAGAAGAAATGAAGTGAAGCGGCTCAAGACATTCGGCTAACGG ctg12325 11
106718 I A TAAAGGTAAATATATTTATTCTTACCTTTTAACCAATAGTATATCTTAAAAGTTAGTACTT
106718 P G A ATGACGTGGCAGACGTATTCCTTTGATTTATGCATTATTAATY
106718 P C A CGCGCCCAGGCTATTCCTTTGATTTATGCATTATTAATY
106718 T G A TAACATTAATAATGCATAAATCAAAGGAATACAGTACTAACTTTTAAGATATACTATTGGTTAAAAGGTAAGAATAAATATATTTACCTTTA
106718 T C A TAACATTAATAATGCATAAATCAAAGGAATAGAGTACTAACTTTTAAGATATACTATTGGTTAAAAGGTAAGAATAAATATATTTACCTTTA
106718 IS [GC] TAAAGGTAAATATATTTATTCTTACCTTTTAACCAATAGTATATCTTAAAAGTTAGTACT[GC]TATTCCTTTGATTTATGCATTATTAATGTTAAGATTTCTTTTTTTTAGGATAAAGGATTT ctg12325 11
106719 I A ATTCCCAGGGTTATTCTTGGAAGGCCCCT
106719 P A A CGCGCCGAGGATCTCATTGTCCTTTTCTAATY
106719 P G A ATGACGTGGCAGAGTCTCATTGTCCTTTTCTAAT
106719 T A A CCAGATTAGAAAAGGACAATGAGGATGGGGCCCTTCCAAGAATAACCCTGGGAATGG
106719 T G A CCAGATTAGAAAAGGACAATGAGGACGGGGCCCTTCCAAGAATAACCCTGGGAATGG
106719 IS [AG] TGTTGTAACTATTATTTATTACGGGGGGGACTATTCCCAGGGTTATTCTTGGAAGGCCCC[AG]TCCTCATTGTCCTTTTCTAATCTGGGGCTCTTTAACCTGTCCCCTCCCCTCCCCTTTCA ctg14145 11
106722 I S GGCCCTGTGGCTGGTACCTTCCCT
106722 P C S ATGACGTGGCAGACGGCATAATGGATGATGGAGY
106722 P T S CGCGCCGAGGAGCATAATGGATGATGGAGY
106722 T C S AGTTCTCCATCATCCATTATGCCGGGAAGGTACCAGCCACAGGGCCCA
106722 T T S AGTTCTCCATCATCCATTATGCTGGGAAGGTACCAGCCACAGGGCCCA
106722 IS [CT] CAAGTTCCAGAAGCCCAAGCAGCTCAAGGACAAGACTGAGTTCTCCATCATCCATTATGC[CT]GGGAAGGTACCAGCCACAGGGCCCAGGGAGACTCTGTCTCAGGGGACCCCAGTGGCTGCT ctg15907 6
106723 I A CGCCATGAAGGTGATTCAGAGGAAACTGCGCA
106723 P C A ATGACGTGGCAGACGCCTACCTCAAGCTY
106723 P T A CGCGCCGAGGTGCCTACCTCAAGCTGY
106723 T C A TCCGCAGCTTGAGGTAGGCAGGCAGTTCCTCTGAATCACCTTCATGGCGGT
106723 T T A TCCGCAGCTTGAGGTAGGCAGGCAGTTCCTCTGAATCACCTTCATGGCGGT
106723 IS [CT] GGCTTTTGCCAAGAGGCAGCAGCAGCTCACTGCCATGAAGGTGATTCAGAGGAACTGCGC[CT]GCCTACCTCAAGCTGCGGAACTGGCAGTGGTGGTGGAGGCTTTTCACCAAAGTGAGTGCTCTG ctg15330 9
106724 I S GCCTGGCAGGAGAGGCAGATCTCCT
106724 P T S CGCGCCGAGGATGCAAAGTATGTCAGAAAGY
106724 P C S ATGACGTGGCAGACGTGCAAAGTATGTCAGAAAGY
106724 T T S TCTGCTTTCTGACATACTTTGCATGAGATCTGCCCTCTCTGCTGCCAGGCTG
106724 T C S TCTGCTTTCTGACATACTTTGCACGAGATCTGCCCTCTCCTGCCAGGCTG
106724 IS [TC] TTCAAGGAGCCTCTTTCAGGAGGGGGCCTGGCTTCCATCTGCTTTCTGACATACTTTGCA[TC]GGAGATCTGCCCTCTCCTGCCAGGCTGTGCTCACACCAATACCAAGAGATCACGAGACGC ctg13715 13
106726 I S AGCCGCTCTCTGCGCTCCGGT
106726 P C S ATGACGTGGCAGACGCCAAAACTCTCCCGGCY
106726 P T S CGCGCCGAGGCACAAAACTCTCCGGCY
106726 T C S AAACGCCGGAGAGTTTTGCCCCGGAGCGCAGAGACGCGCTGT
106726 T T S AAACGCCGGAGAGTTTTGTCCCGAGCGCAGAGACGCGCTGT
106726 IS [CT] AACGCCTCAATGGCACAGCGAAGTGCGCGCGAAGTGGGCTGCAAACGCCGCGAGAGTTTTG[CT]CCGGAGCGCAGACAGCGCTGTACCGAGCAACCAGCGGGGCCGCCCCCGGCCTGCTAC ctg15907 6
106727 I S GCTGCCCGGGCCCGGAGA
106727 P G S ATGACGTGGCAGACCTCTGGCTCTGCTGTAY
106727 P A S CGCGCCGAGGTCTGGCTCTGCTGTAGY
106727 T G S CTTCCTACAGCAGAGCCAGAGCTCCGGGCCCCGGGCAGCCC
106727 T A S CTTCCTACAGCAGAGCCAGAACTCCGGCCCCGGGCAGCCC
106727 IS [GA] GTGCCGGGGGTCTTCCTGCTGTCATCAAGGACGTACCGGGCTTCCTACAGCAGAGCCAGA[GA]CTCCCGGGCCCGGGCAGCCCGCTGTGTGGCACCGTCTGGAGGAGCTCTACACGAAGAAGTG
106729 I A CCTCTCTCATCCCTCCCTTTGTCCCTCAGGT
106729 P A A CGCGCCGAGGACATGCTCAATGTGAGGY
106729 P G A ATGACGTGGCAGACGCATGCTCAATGTGAGGY
106729 T A A GTGTCCTCACATTGAGCATGCCCTGAGGGACAAAGGGAGGGATGAGAGAGGGC
106729 T G A GTGTCCTCACATTGAGCATGCCCTGAGGGACAAAGGGAGGGATGAGAGAGGGC
106729 IS [AG] GCTTAGTTTGCCTCACCTTATGATGAGAGCCCTCTCTCATCCCTCCCTTTGTCCCTCAGG[AG]CATGCTCAATGTGAGGACACAGGCCGTGCCCTCAAGGAGATTACATCCTCGGAAAGGTTTC ctg15064 7
106730 I A GGTCCCCTCCTCCCCACCCCCT
106730 P G A ATGACGTGGCAGACGGCCTCTCAAACACGY
106730 P A A CGCGCCGAGGAGCCTCTCAAACACGCY
106730 T G A CTGGGCGTGTTTGAGAGCCCGGGGGTGGGGAGGAGGGGAACTG
106730 T A A CTGGGCGTGTTTGAGAGCCTGGGGGTGGGGAGGAGGGGAACTG
106730 IS [CA] GCCCCTGTTCCCCCACAGGTGTTTGGACAGTGAACGCCAGGTCCCCTCCTCCCCACCCCC[GA]GCCTCTCAAACACGCCCAGCCCCACGATGGCAGCAGAGACACTCAACTTTGGGCCTGAGT ctg15064 7
106732 I A TTTCAATTTGTGGAGGCTGCTCTCTTGGACTT
106732 P G A ATGACGTGGCAGACAACTGCTTTCAGGAATTCAT
106732 P C A CGCGCCGAGGCAACTGCTTTCAGGAATTCY
106732 T G A TTACTGAATTCCTGAAAGCAGTTCAGTCCAAGAAGCAGCCTCCACAAATTGAAAGG
106732 T C A TTACTGAATTCCTGAAAGCAGTTGAGTCCAAGAAGCAGCCTCCACAAATTGAAAGG

FIGURE 129G

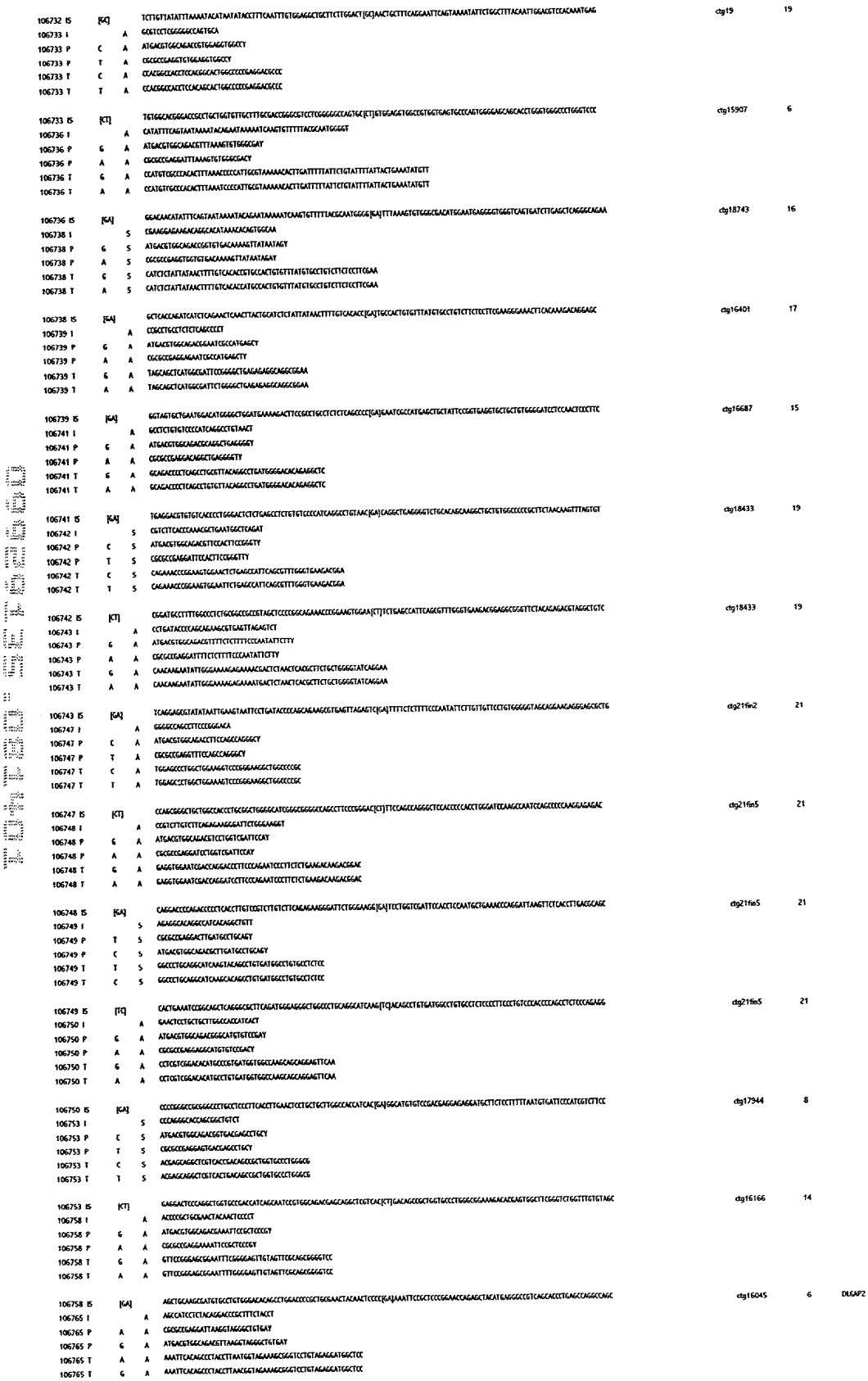

106732 IS [GC] TCTTGTTATATTTAAAATACATAATATACCTTTCAATTTGTGGAGGCTGCTTCTTGGACT[GC]AACTGCTTTCAGGAATTCAGTAAAATATTCTGGCTTTACAATTGGAGGTCCACAAATGAG ctg19 19
106733 I A GCGTCCTCGGGGGCCAGTGCA
106733 P C A ATGACGTGGCAGACCGTGGAGGTGGCCY
106733 P T A CGCCCCGAGGTGTGGAGGTGGCCY
106733 T C A CCACGGCCACCTCCACGGCACTGGCCCCCGAGGACGCCC
106733 T T A CCACGGCCACCTCCACAGCACTGGCCCCCGAGGACGCCC
106733 IS [CT] TGTGGCACGGGACCGCCTGCTGGTGTTGCTTTGCGACCGGGCGTCCCTGGGGGGCCAGTGC[CT]GTGGAGGTGGCCGTGGTGAGTGCCCAGTGGGGAGCAGCACCTGGGTGGGCCCTGGGTCCC ctg15907 6
106736 I A CATATTTCAGTAATAAAATACAGAATAAAAATCAAGTGTTTTTACGCAATGGGGT
106736 P G A ATGACGTGGCAGACGTTTAAAGTGTGGGCGAY
106736 P A A CGCGCCGAGGATTTAAAGTGTGGGCGACY
106736 T G A CCATGTCGCCCACACTTTAAACCCCCATTGCGTAAAAACACTTGATTTTTATTCTGTATTTTATTACTGAAATATGTT
106736 T A A CCATGTCGCCCACACTTTAAATCCCCATTGCGTAAAAACACTTGATTTTTATTCTGTATTTTATTACTGAAATATGTT
106736 IS [GA] GGACAACATATTTCAGTAATAAAATACAGAATAAAAATCAAGTGTTTTTACGCAATGGGG[GA]TTTAAAGTGTGGGCGACATGGGAGGGGTGGGTCAGTGATCTTGAGCTCAGGGCAGAA ctg18743 16
106738 I S CGAAGGAGAAGACAGGCACATAAACACAGTGGCAA
106738 P G S ATGACGTGGCAGACCGGTGTGACAAAAGTTATAATAGY
106738 P A S CGCGCCGAGGTGGTGTGACAAAAGTTATAATAGAY
106738 T G S CATCTCTATTATAACTTTTGTCACACGTGCCACTGTGTTTATGTGCCTGTCTTCTCCTTCGAA
106738 T A S CATCTCTATTATAACTTTTGTCACACCATGCCACTGTGTTTATGTGCCTGTCTTCTCCTTCGAA
106738 IS [GA] GCTCACCAEATCATCTCAGAACTCAACTTACTGCATCTCTATTATAACTTTTGTCACACC[GA]TGCCACTGTGTTTATGTGCCTGTCTTCTCCTTCGAAGGGAAACTTCACAAAGACAGGAGC ctg16401 17
106739 I A CCGCTTGCCTCTCTCAGCCCCT
106739 P G A ATGACGTGGCAGACGGAATCGCCATGAGCY
106739 P A A CGCGCCGAGGAGAATCGCCATGAGCTY
106739 T G A TAGCAGCTCATGGCGATTCCGGGGCTGAGAGAGGCAGGCGGAA
106739 T A A TAGCAGCTCATGGCGATTCTGGGGCTGAGAGAGGCAGGCGGAA
106739 IS [GA] GGTAGTGCTGAATGGACATGGGGCTGGATGAAAGACTTCCGCCTGCCTCCTCTCAGCCCC[GA]GAATCGCCATGAGCTGCTATTCCGGTGAGGTGCTGCTGTGGGGATCCTCCAACTCCCTTC ctg16687 15
106741 I A GCCTCTGTGTCCCCATCAGGCCTGTAACT
106741 P G A ATGACGTGGCAGACGCAGGCTGAGGGGY
106741 P A A CGCGCCGAGGACAGGCTGAGGGGTY
106741 T G A GCAGACCCCTCAGCCTGCGTTACAGGCCTGATGGGGACACAGAGGCTC
106741 T A A GCAGACCCCTCAGCCTGTGTTACAGGCCTGATGGGGACACAGAGGCTC
106741 IS [GA] TGAGGACGTGTGTCACCCCTGGGACTCTCTGAGCCTCTGTGTCCCCATCAGGCCTGTAAC[GA]CAGGCTGAGGGGTCTGCACAGCAAGGCTGCTGTGGCCCCCGCTTCTAACAAGTTTAGTGT ctg18433 19
106742 I S CGTCTTCACCCAAAGCTGAATGGCTCAGAT
106742 P C S ATGACGTGGCAGACGTTCCACTTCCGGGTY
106742 P T S CGCGCCGAGGATTCCACTTCCGGGTTY
106742 T C S CAGAAACCCGGAAGTGGAACTCTGAGCCATTCAGCGTTTGGGTGAAGACGGA
106742 T T S CAGAAACCCGGAAGTGGAATTCTGAGCCATTCAGCGTTTGGGTGAAGACGGA
106742 IS [CT] CGGATGCCTTTTGGCCCTCTGCGGCCCCGTAGCTCCCCGGCAGAAACCCGGAAGTGGAA[CT]TCTGAGCCATTCAGCGTTTGGGTGAAGACGGAGAGCGGGTTCTACAGAGACGTAGGCTGTC ctg18433 19
106743 I A CCTGATACCCCAGCAGAAGCGTGAGTTAGAGTCT
106743 P G A ATGACGTGGCAGACGTTTTCTCTTTTCCCAATATTCTTY
106743 P A A CGCGCCGAGGATTTCTCTTTTCCCAATATTCTTY
106743 T G A CAACAAGAATATTGGGAAAAGAGAAAACGACTCTAACTCACGCTTCTGCTGGGGTATCAGGAA
106743 T A A CAACAAGAATATTGGGAAAAGAGAAAATGACTCTAACTCACGCTTCTGCTGGGGTATCAGGAA
106743 IS [GA] TCAGGAGGGTATATAATTGAAGTAATTCCTGATACCCCAGCAGAAGGGTGAGTTAGAGTC[GA]TTTTCTCTTTTCCCAATATTCTTGTTGTTCCTGTGGGGGTAGCAGGAACAGGGAGCGCTG ctg21fin2 21
106747 I A GGGGCCAGCCTTCCCGGGACA
106747 P C A ATGACGTGGCAGACCTTCCAGCCAGGGCY
106747 P T A CGCGCCGAGGTTTCCAGCCAGGGCY
106747 T C A TGGAGCCCTGGCTGGAAGGTCCCGGGGAAGGCTGGCCCCGC
106747 T T A TGGAGCCCTGGCTGGAAAGTCCCGGGGAAGGCTGGCCCCGC
106747 IS [CT] CCAGCGGGCTGCTGGCCACCCTGCGGCTGGGGCATCGGGCGGGGCCAGCCTTCCCGGGAC[CT]TTCCAGCCAGGGCTCCACCCCCACCTGGGATCCAAGCCAATCCAGCCCCCAAGGAGAGAC ctg21fin5 21
106748 I A CCGTCTTGTCTTCAGAGAAGGAATTCTGGGAAAGT
106748 P G A ATGACGTGGCAGACGTCCTGGTCGATTCCAY
106748 P A A CGCGCCGAGGATCCTGGTCGATTCCAY
106748 T G A GAGGTGGAATCGACCAGGACCTTCCCAGAATCCCTTCTCTGAAGACAAGACGGAC
106748 T A A GAGGTGGAATCGACCAGGATCCTTCCCAGAATCCCTTCTCTGAAGACAAGACGGAC
106748 IS [GA] CAGGACCCCAGACCCCTCACCTTGTCCGTCTTGTCTTCAGAGAAGGGATTCTGGGAAGG[GA]TCCTGGTCGATTCCACCTCCAATGCTGAAACCCAGGATTAAGTTCTCACCTTGAGGCAGC ctg21fin5 21
106749 I S AGAGGCACAGGCCATCACAGGCTGTT
106749 P T S CGCGCCGAGGACTTGATGCCTGCAGY
106749 P C S ATGACGTGGCAGACGCTTGATGCCTGCAGY
106749 T T S GGCCCTGCAGGCATCAAGTACAGCCTGTGATGGCCTGTGCCTCTCC
106749 T C S GGCCCTGCAGGCATCAAGCACAGCCTGTGATGGCCTGTGCCTCTCC
106749 IS [TC] CACTGAAATCCGGCAGCTCAGGGCGCTTCAGATGGGAGGGCTGGCCCTGCAGGCATCAAG[TC]ACAGCCTGTGATGGCCTGTGCCTCTCCCCTTCCCTGTCCCACCCCAGCCTCTCCCAGAGG ctg21fin5 21
106750 I A GAACTCCTGCTGCTTGGCCACCATCACT
106750 P G A ATGACGTGGCAGACGGGCATGTGTCCGAY
106750 P A A CGCGCCGAGGACGGCATGTGTCCGACY
106750 T G A CCTCGTCGGACACATGCCCGTGATGGTGGCCAAGCAGCAGGAGTTCAA
106750 T A A CCTCGTCGGACACATGCCTGTGATGGTGGCCAAGCAGCAGGAGTTCAA
106750 IS [GA] CCCCGGGCCGCGGGCCCTGCCTCCCTTCACCTTGAACTCCTGCTGCTTGGCCACCATCAC[GA]GGCATGTGTCCGACGAGGAGGAGATGCTTCTCCTTTTTAATGTGATTCCCATCGTCTTCC ctg17944 8
106753 I S CCCAGGGCACCAGCGGCTGTCT
106753 P C S ATGACGTGGCAGACGGTGACGAGCCTGCY
106753 P T S CGCGCCGAGGAGTGACGAGCCTGCY
106753 T C S ACGAGCAGGCTCGTCACCGACAGCCGCTGGTGCCCTGGGCG
106753 T T S ACGAGCAGGCTCGTCACTGACAGCCGCTGGTGCCCTGGGCG
106753 IS [CT] GAGGACTCCCAGGCTCGTGCCGACCATCAGCAATCCGTGGCAGACGAGCAGGCTCGTCAC[CT]GACAGCCGCTGGTGCCCTGGGCGGAAAGACACCAGTGGCTTCGGGTCTCGTTGTTGTGTAGC ctg16166 14
106758 I A ACCCCGCTGCGAACTACAACTCCCCT
106758 P G A ATGACGTGGCAGACGAAATTCCGCTCCCGY
106758 P A A CGCGCCGAGGAAAATTCCGCTCCCGY
106758 T G A GTTCCGGGAGCGGAATTTCGGGGAGTTGTAGTTCGCAGCGGGGTCC
106758 T A A GTTCCGGGAGCGGAATTTGGGGAGTTGTAGTTCGCAGCGGGGTCC
106758 IS [GA] AGCTGCAAGCGATGTGCCTGTGGGACACAGCCTGGACCCCGCTGCGAACTACAACTCCCC[GA]AAATTCCGCTCCGGAACCAGAGCTACATGAGGGCCGTCAGCACCCTGAGCCAGGCCAGC ctg16045 6 DLGAP2
106765 I A AGCCATCCTCTACAGGACACCGCTTTCTACCT
106765 P A A CGCGCCGAGGATTAAGGTAGGGCTGTGAY
106765 P G A ATGACGTGGCAGACGTTAAGGTAGGGCTGTGAY
106765 T A A AAATTCACAGCCCTACCTTAATGGTAGAAAGCGGGTCCTGTAGAGGATGGCTCC
106765 T G A AAATTCACAGCCCTACCTTAACGGTAGAAAGCGGGTCCTGTAGAGGATGGCTCC

FIGURE 129G

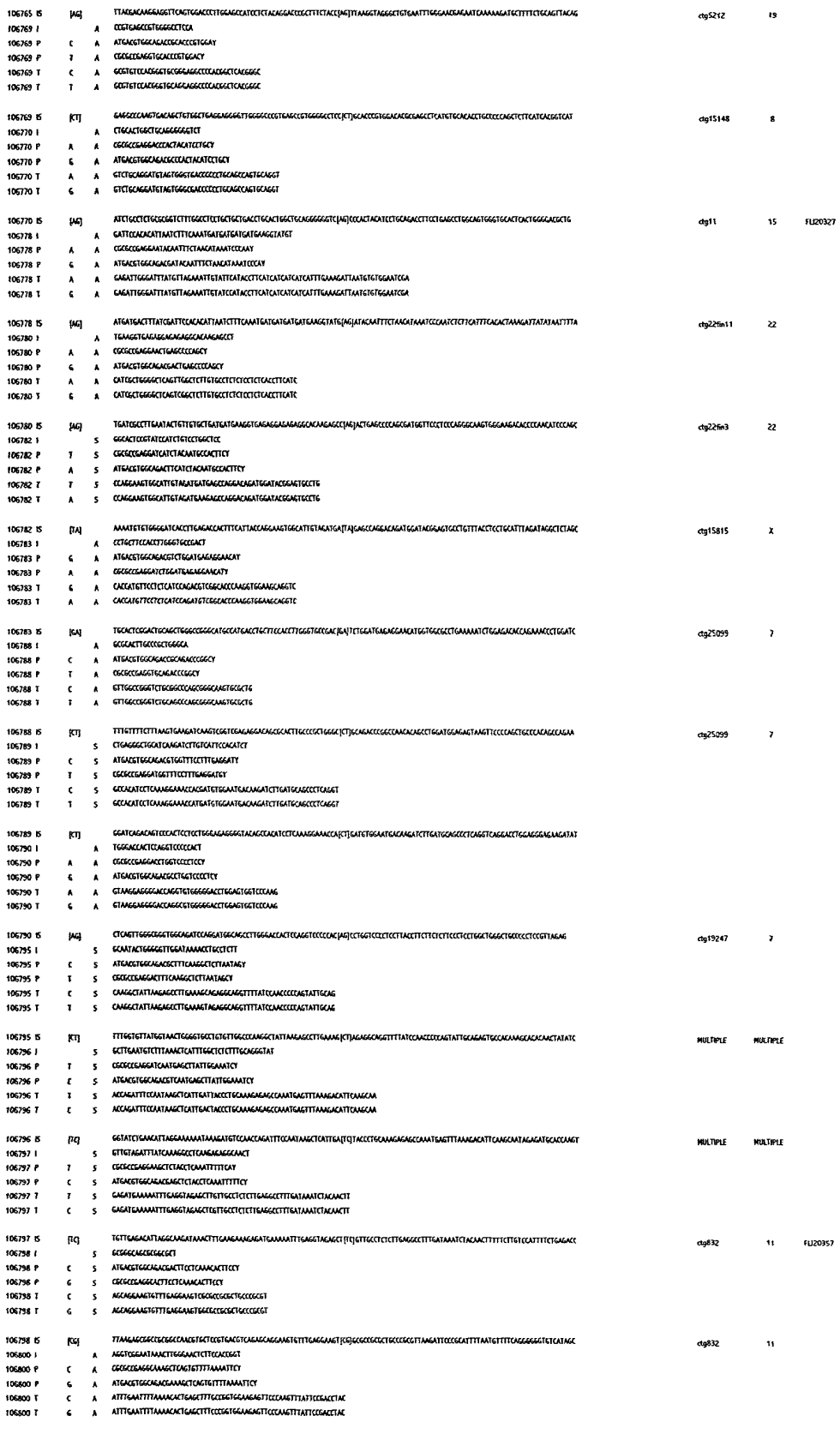
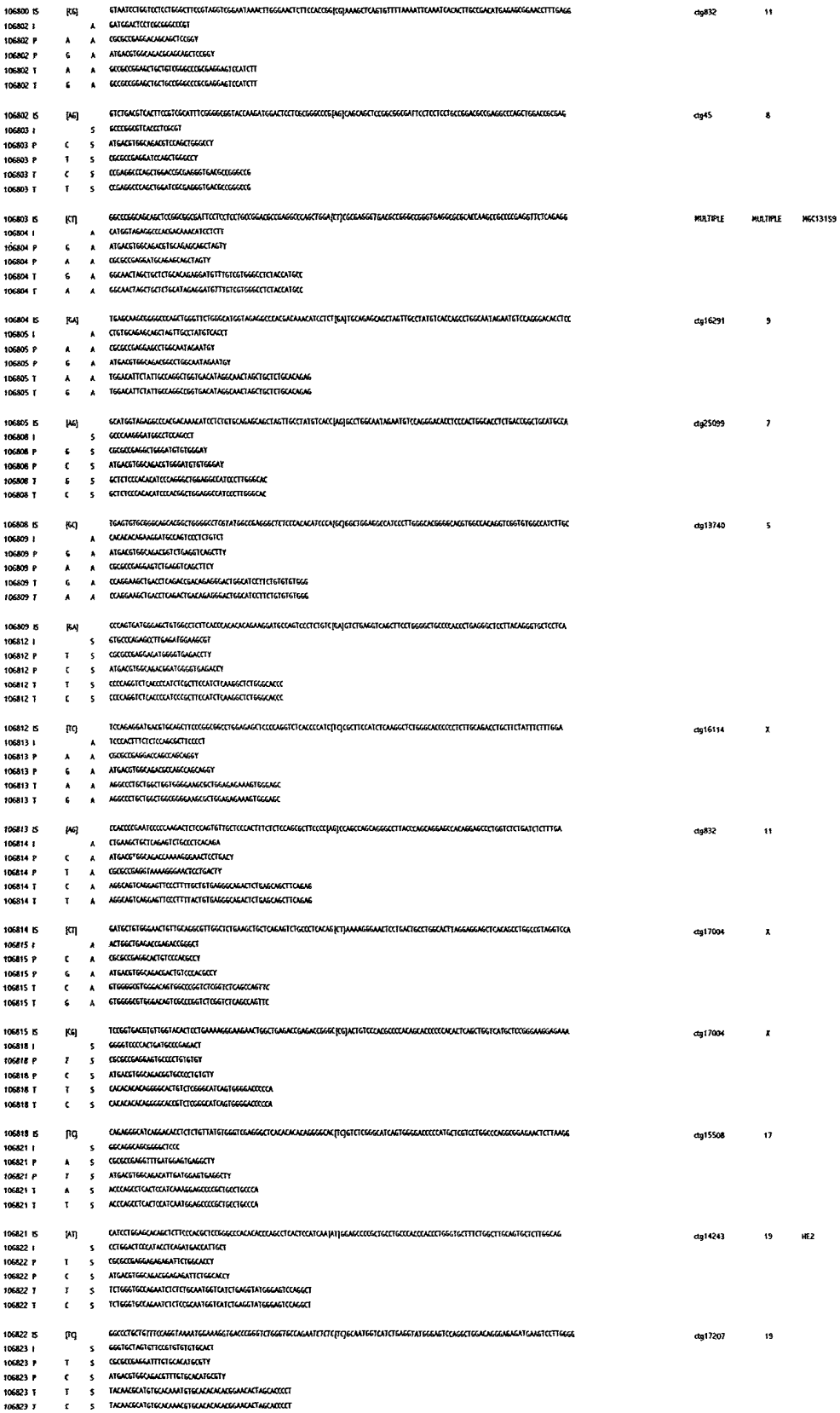

106765 IS [AG] TTAGGACAAGGAGGTTCAGTGGACCCTTGGAGCCATCCTCTACAGGACCCGCTTTCTACC[AG]TTAAGGTAGGGCTGTGAATTTGGGAACAGAATCAAAAAGATGCTTTTCTGCAGTTACAG ctg5242 19
106769 I A CCGTGAGCCGTGGGGCCTCCA
106769 P C A ATGACGTGGCAGACCGCACCCGTGCAY
106769 P T A CGGCCGAGGTGCACCCGTGCACY
106769 T C A GCGTGTCCAGGGGTGCGGGAGGCCCCACGGCTCACGGGC
106769 T T A GCGTGTCCACGGGTGCAGCAGGCCCCACGGCTCACGGGC
106769 IS [CT] GAGCCCCAAGTGACAGCTGTGGCTGAGGAGGGGGTGGGGCCCCGTGAGCCGTGGGGCCTCCC[CT]GCACCCGTGGACACGCGAGCCTCATGTGCACACCTGCCCCCAGCTCTTCATCACGGTCAT ctg15148 8
106770 I A CTGCACTGGCTGCAGGGGGGTCT
106770 P A A CGCGCCGAGGACCCACTACATCCTGCY
106770 P G A ATGACGTGGCAGACGCCCACTACATCCTGCY
106770 T A A GTCTGCAGGGATGTAGTGGGTGACCCCCTGCAGCCAGTGCAGGT
106770 T G A GTCTGCAGGATGTAGTGGGCGACCCCCTGCAGCCAGTGCAGGT
106770 IS [AG] ATCTGCCTCTGCGCGGGTCTTTGGCCTCCTGCTGCTGACCTGCACTGGCTGCAGGGGGGTC[AG]CCCACTACATCCTGCAGACCTTCCTGAGCCTGGCAGTGGGTGCACTCACTGGGCACGCTG ctg11 15 FLI20327
106778 I A GATTCCACACATTAATCTTTCAAATGATGATGATGATGAAGGTATGT
106778 P A A CGCGCCGAGGAATACAATTTCTAACATAAATCCCAAY
106778 P G A ATGACGTGGCAGACGATACAATTTCTAACATAAATCCCAAY
106778 T A A GAGATTGGGATTTATGTTAGAAATTGTATTCATACCTTCATCATCATCATCATTTGAAAGATTAATGTGTGGAATCGA
106778 T G A GAGATTGGGATTTATGTTAGAAATTGTATCCATACCTTCATCATCATCATCATTTGAAAGATTAATGTGTGGAATCGA
106778 IS [AG] ATGATGACTTTATCGATTCCACACATTAATCTTTCAAATGATGATGATGATGAAGGTATG[AG]ATACAATTTCTAACATAAATCCCAATCTCTTCATTTCACACTAAAGATTATATAAATTTTA ctg22fin11 22
106780 I TGAAGGTGAAGAGGAGAAGAGGCACAAGAGCCT
106780 P A A CGCGCCGAGGAACTGAGCCCAGCY
106780 P G A ATGACGTGGCAGACGACTGAGCCCAGCY
106780 T A A CATCGCTGGGGCTCAGTTGGCTCTTGTGCCTCTCTCCTCTCACCTTCATC
106780 T G A CATCGCTGGGGCTCAGTCGGCTCTTGTGCCTCTCTCCTCTCACCTTCATC
106780 IS [AG] TGATCGCCTTGAATACTGTTGTGCTGATGATGAAGGTGAGAGGAGAAGAGGCACAAGAGCC[AG]ACTGAGCCCCAGCGATGGTTCCCTCCCAGGGCAAGTGGGAAGACACCCAACATCCCAGC ctg22fin3 22
106782 I S GGCACTCCGTATCCATCTGTCCTGGCTCC
106782 P T S CGCGCCGAGGATCATCTACAATGCCACTTCY
106782 P A S ATGACGTGGCAGACTTCATCTACAATGCCACTTCY
106782 T T S CCAGGAAGTGGCATTGTAGATGAAGAGCCAGGACAGATGGATACGGAGTGCCTG
106782 T A S CCAGGAAGTGGCATTGTAGATGAAGAGCCAGGACAGATGGATACGGAGTGCCTG
106782 IS [TA] AAAATGTGTGGGGATCACCTTGAGACCACTTTCATTACCAGGAAGTGGCATTGTAGATGA[TA]GAGCCAGGACAGATGGATACGGAGTGCCTGTTTACCTCCTGCATTTAGATAGGCTCTAGC ctg15815 X
106783 I A CCTGCTTCCACCTGGGTGCCGCACT
106783 P G A ATGACGTGGCAGACGTCTGCATGAGAGGAACAY
106783 P A A CGCGCCGAGGATCTGCATGAGAGGAACAY
106783 T G A CACCATGTTCCTCTCATCCAGACGTCGGCACCCAAGGTGGAAGCAGGTC
106783 T A A CACCATGTTCCTCTCATCCAGATGTCGGCACCCAAGGTGGAAGCAGGTC
106783 IS [GA] TGCACTCGGCATGCAGCTGGGCCGGGCATGCCATGACCTGCTTCCACCTTGGGTGCCGAC[GA]TCTGGATGAGAGGAACATGGTGGCGCTGAAAAATCTGGAGACACCAGAAACCCTGGATC ctg25099 7
106788 I A GCGCACTTGCCCGCTGGGCA
106788 P C A ATGACGTGGCAGACCGCAGACCCGCY
106788 P T A CGCGCCGAGGTGCAGACCCGGCY
106788 T C A GTTGGCCGGGTCTGCGGCCCAGCGGGCAAGTGCGCTG
106788 T T A GTTGGCCGGGTCTGCAGCCCAGCGGGCAAGTGCGCTG
106788 IS [CT] TTTGTTTTCTTTAAGTGAAGATCAAGTCGGTCGAGAGGACAGCGCCACTTGCCCGCTGGGC[CT]GCAGACCCGGCCAACACAGCCTGGATGGAGAGTAAGTTCCCCAGCTGCCCACAGCCAGAA ctg25099 7
106789 I S CTGAGGGCTGCATCAAGATCTTGTCATTCCCACATCT
106789 P C S ATGACGTGGCAGACGTGGTTTCCTTTGAGGATY
106789 P T S CGCGCCGAGGATGGTTTCCTTTGAGGATGY
106789 T C S GCCACATCCTCAAAGGAAACCACGATGTGGAATCACAAGATCTTGATGCAGCCCTCAGGT
106789 T T S GCCACATCCTCAAAGGAAACCATGATGTGGAATGACAAGATCTTGATGCAGCCCTCAGGT
106789 IS [CT] GGATCAGACAGTCCCACTCCTCCTGGCAGAGGGGTACAGCCACATCCTCAAAGGAAACCA[CT]GATGTGGAATGACAAGATCTTGATGCAGCCCTCAGGTCAGGACCTGGAGGGAGAAGATAT
106790 I A TGGCACCACTCCAGGTCCCCCACT
106790 P A A CGCGCCGAGGACCTGGTCCCCTCCY
106790 P G A ATGACGTGGCAGACGCCTGGTCCCCTCY
106790 T A A GTAAGGAGGGGACCAGGTGTGGGGGACCTGGAGTGGTCCCAAG
106790 T G A GTAAGGAGGGGACCAGGCGTGGGGGACCTGGAGTGGTCCCAAG
106790 IS [AG] CTCAGTTGGGCAGGTGGCAGATCCAGGATGGCAGCCTTGGGAACCACTCCAGGTCCCCCAC[AG]CCTGGTCCCTCTCCTTACCTTCTTCCTCTCCCTCCTGGCTGGGCTGCCCCTCCGTTAGAG ctg19247 7
106795 I S GCAATACTGGGGGTTGGATAAAACCTGCCTCTT
106795 P C S ATGACGTGGCAGACGCTTTCAAGGCTCTTAATAGY
106795 P T S CGCGCCGAGGACTTTCAAGGCTCTTAATAGCY
106795 T C S CAAGGCTATTAAGAGCCTTGAAAGCAGAGGCAGGTTTTATCCAACCCCCAGTATTGCAG
106795 T T S CAAGGCTATTAAGAGCCTTGAAAGTAGAGGCAGGTTTTATCCAACCCCCAGTATTGCAG
106795 IS [CT] TTTGGTGTTATGGTAACTGGGGTGCCTGTGTTGCCCAAGGCTATTAAGAGCCTTGAAAG[CT]AGAGGCAGGTTTTATCCAACCCCCAGTATTGCAGAGTGCCACAAAGCACACAACTATATC MULTIPLE MULTIPLE
106796 I S GCTTGAATGTCTTTAAACTCATTTGGCTCTCTTTGCAGGGTAT
106796 P T S CGCGCCGAGGATCAATGAGCTTATTGCAAATCY
106796 P C S ATGACGTGGCAGACGTCAATGAGCTTATTGCAAATCY
106796 T T S ACCAGATTTCCAATAAGCTCATTGATTACCCTGCAAAGAGAGCCAAATGAGTTTAAAGACATTCAAGCAA
106796 T C S ACCAGATTTCCAATAAGCTCATTGACTACCCTGCAAAGAGAGCCAAATGAGTTTAAAGACATTCAAGCAA
106796 IS [TC] GGTATCYGAACATTAGGAAAAAATAAAGATGTCCAACCAGATTTCCAATAAGCTCATTGA[TC]TACCCTGCAAAGAGAGCCAAATGAGTTTAAAGACATTCAAGCAATAGAGATGCACCAAGT MULTIPLE MULTIPLE
106797 I S GTTGTAGATTTATCAAAGGCCTCAAGACAGGCAACT
106797 P T S CGCGCCGAGGAAGCTCTACCTCAAATTTTTCAY
106797 P C S ATGACGTGGCAGACAGAGCTCTACCTCAAATTTTTCY
106797 T T S GAGATGAAAAATTTGAGGTAGAGCTTGTTGCCTCTCTTGAAGCCTTTGATAAATCTACAACTT
106797 T C S GAGATGAAAAATTTGAGGTAGAGCTTGTTGCCTCTCTTGAAGCCTTTGATAAATCTACAACTT
106797 IS [TC] TGTTGAGACATTAGGCAAGATAAACTTTGAAGAAAGAGATGAAAAATTTGAGGTAGAGCT[TC]GTTGCCTCTCTTGAGGCCTTTGATAAATCTACAACTTTTTCTTGTCCATTTTCTGAGACC ctg832 11 FLI20357
106798 I S GCGGGCAGCGCGGCGCT
106798 P C S ATGACGTGGCAGACGACTTCCTCAAACACTTCCY
106798 P G S CGCGCCGAGGCACTTCCTCAAACACTTCCY
106798 T C S AGCAGGAAGTGTTTGAGGAAGTCGCGCCGCGCTGCCCGCGT
106798 T G S AGCAGGAAGTGTTTGAGGAAGTGGCGCCGCGCTGCCCGCGT
106798 IS [CG] TTAAGAGCGGCCGCGGCCAACGTGCTCCGTGACGTCAGAGCAGGAAGTGTTTGAGGAAGT[CG]GCGCCGCGCTGCCCGCGTTAAGATTCCCGCATTTTAATGTTTTCAGGGGGGTGTCATAGC ctg832 11
106800 I A AGGTCGGAATAAACTTGGGAACTCTTCCACCGGT
106800 P C A CGCGCCGAGGCAAAGCTCAGTGTTTAAAATTCY
106800 P G A ATGACGTGGCAGACGAAAGCTCAGTGTTTTAAAATTCY
106800 T C A ATTTGAATTTTAAAACACTGAGCTTTGCCGGTGCAAGAGTTGCCAAGTTTAATCCGACCTAC
106800 T G A ATTTGAATTTTAAAACACTGAGCTTTCCCGGTGCAAGAGTTGCCAAGTTTAATCCGACCTAC

FIGURE 129G



Filed: June 18, 2001

FIGURE 129G

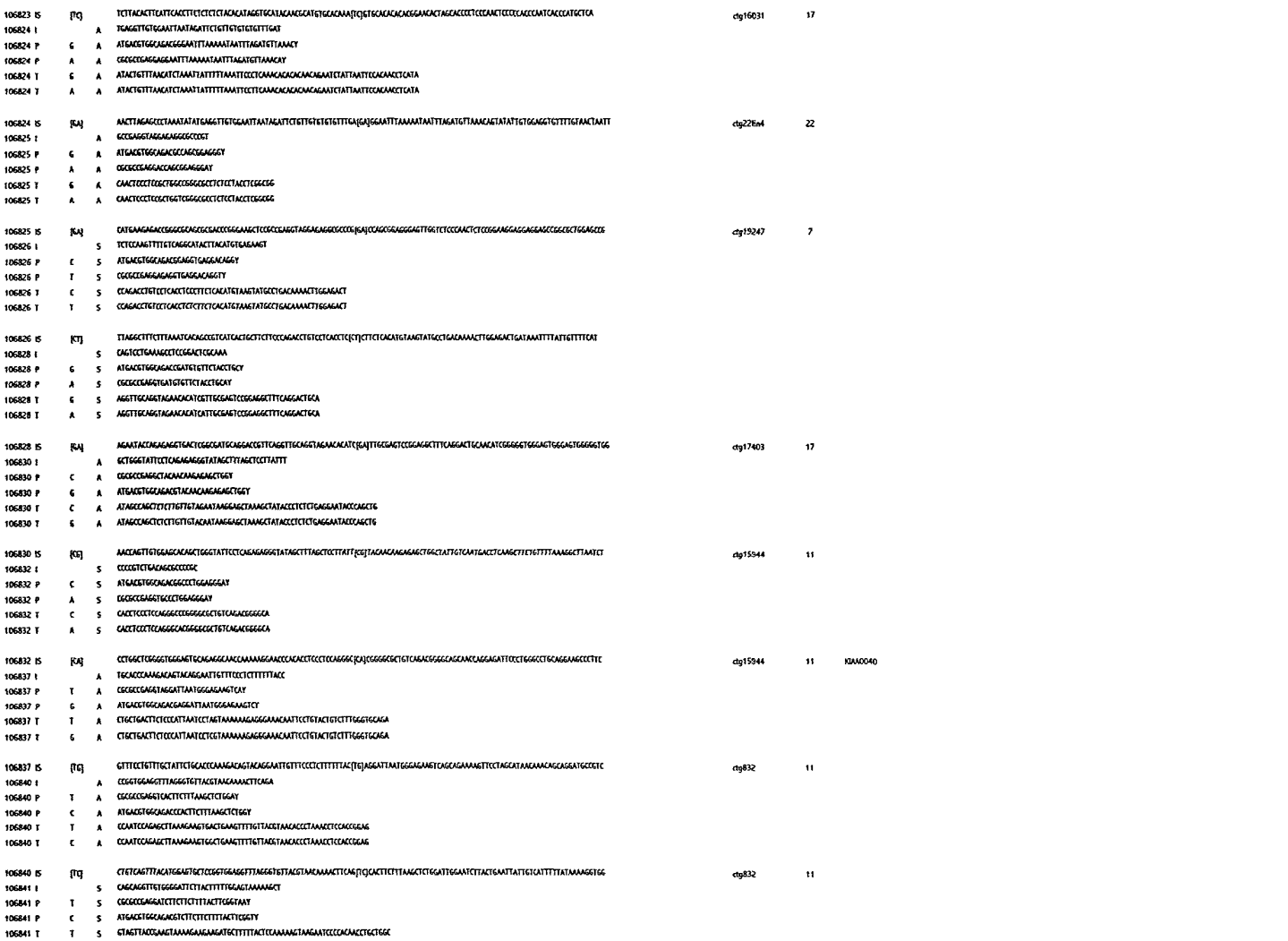

106823 IS [TC] TCTTACACTTCATTCACCTTCTCTCTCTACACATAGGTGCATACAACGCATGTGCACAAA[T/C]GTGCACACACACGGAACACTAGCACCCCTCCCAACTCCCCCACCCAATCACCCATGCTCA ctg16031 17
106824 I A TGAGGTTGTGGAATTAATAGATTCTGTTGTGTGTGTTTGAT
106824 P G A ATGACGTGGCAGACGGGAATTTAAAAATAATTTAGATGTTAAACY
106824 P A A CGCGCCGAGGAGGAATTTAAAAATAATTTAGATGTTAAACAY
106824 T G A ATACTGTTTAACATCTAAATTATTTTTAAATTCCCTCAAACACACACAACAATCTATTAATTCCACAACCTCATA
106824 T A A ATACTGTTTAACATCTAAATTATTTTTAAATTCCTCAAACACACACAACAATCTATTAATTCCACAACCTCATA
106824 IS [GA] AACTTAGAGCCCTAAATATATGAGGTTGTCGAATTAATAGATTCTGTTGTGTGTGTTTGA[G/G]GAATTTAAAAATAATTTAGATGTTAAACAGTATATTGTGGAGGTGTTTTGTAACTAATT ctg22fm4 22
106825 I A GCCGAGGTAGGAACAGGCCCGT
106825 P G A ATGAGGTGGCAGACGCCAGCGGAGGGY
106825 P A A CGCGCCGAGGACCAGCGGAGGGAT
106825 T G A CAACTCCCTCCGCTGCCCGGGCGCCTCTCTCCTACCTCGGCCG
106825 T A A CAACTCCCTCCGCTGGTCGGGCGCCTCTCCTACCTCGGCGG
106825 IS [GA] CATGAAGAGACCGGGCGCAGCGCGACCCGGCAAGCTCCGCCCAAGTAGGAAGAGGCCCG[G/A]CCAGCGGAGGGAGTTGGTCTCCCAACTCTCCGGAAGGAGCAGGAGCCGGCGCTGGAGCCG ctg15247 7
106826 I S TCTCCAAGTTTTGTCAGGCATACTTACATGTGAAGAGT
106826 P C S ATGAGGTGGCAGACGCAGGTGAGGACAGGY
106826 P T S CGCGCCGAGGAGAGGTGAGGACAGGTY
106826 T C S CCAGACCTGTCCTCACCTCCCTTCTCACATGTAAGTATGCCTGACAAAACTTGGAGACT
106826 T T S CCAGACCTGTCCTCACCTCTCTTCTCACATGTAAGTATGCCTGACAAAACTTGGAGACT
106826 IS [CT] TTAGGCTTTCTTTAAATCACAGCCGTCATCACTGCTTCTTCCCAGACCTGTCCTCACCTC[C/T]CTTCTCACATGTAAGTATGCCTGACAAAACTTGGAGACTGATAAATTTTATTGTTTTCAT
106828 I S CAGTCCTGAAAGCCTCCGGACTCGCAAA
106828 P G S ATGACGTGGCAGACCGATGTGTTCTACCTGCY
106828 P A S CGCGCCGAGGTGATGTGTTCTACCTGCAY
106828 T G S AGGTTGCAGGTAGAACACATCGTTGCGAGTCCGGAGGCTTTCAGGACTGCA
106828 T A S AGGTTGCAGGTAGAACACATCATTGCGAGTCCGGAGGCTTTCAGGACTGCA
106828 IS [GA] AGAATACCAGAGAGGTGACTCGGCGATGCAGGACCGTTCAGGTTGCAGGTAGAACACATC[G/A]TTGCGAGTCCGGAGGCTTTCAGGACTGCAACATCGGGGGGTGGGAGTGGGAGTGGGGGTGG ctg17403 17
106830 I A GCTGGGTATTCCTCAGAGAGGGTATAGCTTTAGCTCCTTATTT
106830 P C A CGCGCCGAGGCTACAACAAGAGAGCTGGY
106830 P G A ATGAGTGGCAGACGTACAACAAGAGAGCTGGY
106830 T C A ATAGCCAGCTCTCTTGTTGTAGAATAAGGAGCTAAAGCTATACCCTCTCTCAGGAATACCCAGCTG
106830 T G A ATAGCCAGCTCTCTTGTTGTACAATAAGGAGCTAAAGCTATACCCTCTCTCAGGAATACCCAGCTG
106830 IS [CG] AACCAGTTGTGGAGCACAGCTGGGTATTCCTCAGAGAGGGTATAGCTTTAGCTCCTTATT[C/G]TACAACAAGAGAGCTGGCTATTGTCAATGACCTCAAGCTTCTGTTTTAAAGGCTTAATCT ctg15544 11
106832 I S CCCCGTCTCACAGCGCCCGC
106832 P C S ATGACGTGGCAGACGGCCCTGGAGGGAY
106832 P A S CGCGCCGAGGTGCCCTGGAGGGAY
106832 T C S CACCTCCCTCCAGGGCCCGGGGGCGCTGTCAGACGGGGCA
106832 T A S CACCTCCCTCCAGGGCACGGGGCGCTGTCAGACGGGGCA
106832 IS [GA] CCTGGCTCGGGGTGGGAGTGCAGAGGCAACCAAAAGGAACCCACACCTCCCTCCAGGGC[G/A]CGGGGCGCTGTCAGACGGGGCAGCAACCAGGAGATTCCCTGGGCCTGCAGGAAGCCCTTC ctg15944 11 KIAA0040
106837 I A TGCACCCAAAGACAGTACAGGAATTGTTTCCCTCTTTTTACC
106837 P T A CGCGCCGAGGTAGGATTAATGGGAGAAGTCAY
106837 P G A ATGACGTGGCAGACGAGGATTAATGGGAGAAGTCY
106837 T T A CTGCTGACTTCTCCCATTAATCCTAGTAAAAAAGAGGGAAACAATTCCTGTACTGTCTTTGGGTGCAGA
106837 T G A CTGCTGACTTCTCCCATTAATCCTCGTAAAAAAGAGGGAAACAATTCCTGTACTGTCTTTGGGTGCAGA
106837 IS [TG] GTTTCCTGTTTGCTATTCTGCACCCAAAGACAGTACAGGAATTGTTTCCCTCTTTTTAC[T/G]AGGATTAATGGGAGAAGTCAGCAGAAAAGTTCCTAGCATAACAAACAGCAGGATGCCGTC ctg832 11
106840 I A CCGGTGGAGGTTTAGGGTGTTACGTAACAAAACTTCAGA
106840 P T A CGCGCCGAGGTCACTTCTTTAAGCTCTGGAY
106840 P C A ATGACGTGGCAGACCCACTTCTTTAAGCTCTGGY
106840 T T A CCAATCCAGAGCTTAAAGAAGTGACTGAAGTTTTGTTACGTAACACCCTAAACCTCCACCGGAG
106840 T C A CCAATCCAGAGCTTAAAGAAGTGGCTGAAGTTTTGTTACGTAACACCCTAAACCTCCACCGGAG
106840 IS [TC] CTGTCAGTTTACATGGAGTGCTCCGGTGGAGGTTTAGGGTGTTACGTAACAAAACTTCAG[T/C]CACTTCTTTAAGCTCTGGATTGGAATCTTACTGAATTATTGTCATTTTTATAAAAGGTGG ctg832 11
106841 I S CAGCAGGTTGTGGGGATTCTTACTTTTTGGAGTAAAAAGCT
106841 P T S CGCGCCGAGGATCTTCTTTTACTTGGGTAAY
106841 P C S ATGACGTGGCAGACGTCTTCTTCTTTTACTYGGTY
106841 T T S GTAGTTACCGAAGTAAAAGAAGAAGATGCTTTTTACTCCAAAAAGTAAGAATCCCCACAACCTGCTGGC
106841 T C S GTAGTTACCGAAGTAAAAGAAGAAGAGCTTTTTACTCCAAAAAGTAAGAATCCCCACAACCTGCTGGC
106841 IS [TC] AGATGAAGAAGAGAATGATGAGCCACCCAAAGTAGTAGTTACCGAAGTAAAAGAAGAAGA[T/C]GCTTTTTACTCCAAAAAGTAAGAATCCCCACAACCTGCTGGGGCATGTGTTTTGCAGGCA ctg25002 17
106846 I A TGCCTTCCGGAAGTCAGGCCTCGTCT
106846 P A A CGCGCCGAGGAGGAATCACCAGGTGGT
106846 P G A ATGACGTGGCAGACGGGAATCACCAGGTGGY
106846 T A A GCAACCACCTGGTGATTCCTGACGAGGCCTGACTTCCGGAAGGCAAG
106846 T G A GCAACCACCTGGTGATTCCCGACGAGGCCTGACTTCCGGAAGGCAAG
106846 IS [AG] CCAAAGAGAGCAGGGGAGCCCGCAGGGCGTGGCTTGCCTTCCGGAAGTCAGGCCTCGTC[A/G]GGAATCACCAGGTGGTTGCTTGCGAGAGAAGCTGGGGGTGAAACCGGACAAAACAAAGTA ctg25002 17
106852 I S CGTGGGTGTTGGGCGAGACGGTT
106852 P C S ATGACGTGGCAGACGAAAGGCGAAGGGTTCY
106852 P T S CGCGCCGAGGAAAAGGCGAAGGGTTCY
106852 T C S ACATGAACCCTTCGCCTTTCACCGTCTCGGCCAACACCCACGTC
106852 T T S ACATGAACCCTTCGCCTTTTACCGTCTCGGCCAACACCCACGTC
106852 IS [CT] CAGTCAGTGACACGTGGTCTCTTTGCAGGATGTCACCCCATACATGAACCCTTCGCCTTT[C/T]ACCGTCTCGGCCAACACCCACGTCTCCCAAGTCTTCAACCTGTTCAGAACGATGGGCCTG ctg25002 17
106859 I A GTTGCTTTTCGCACCTTAAAGAAGCTAAAAGTAGAGTTCTTGGTTGAATTT
106859 P G A ATGACGTGGCAGACGTGCAAAGAGCCAGTCY
106859 P A A CGCGCCGAGGATGCAAAGAGCCAGTCY
106859 T G A TCTAGACTGGCTCTTTGCAAATTCAACCAAGAACTCTACTTTTAGCTTCTTTAAAGGTGCAAAAGCAACTA
106859 T A A TCTAGACTGGCTCTTTGCATAATTCAACCAAGAACTCTACTTTTAGCTTCTTTAAAGGTGCAAAAGCAACTA
106859 IS [GA] TTTAAATATAGTTGCTTTTGCAACCTTTAAAGAAGCTAAAAGTAGAGTTCTTGGTTGAATT[G/A]TGCAAACAGCCAGTCTAGATAAAGGACCAAAAAACATTGTTCTTCCCAAATGCTTTATTC ctg17207 19
106868 I S TCCCTGTTCAGCAGTCGTGGGCAGCT
106868 P G S CGCGCCGAGGCCATCCAGTTGGGTTCY
106868 P C S ATGACGTGGCAGACGCATCCAGTTGGGTTCY
106868 T G S GGAAGAACCCAACTGGATGGGCTCCCCACGACTGCTGAACAGGCACA
106868 T C S GGAAGAACCCAACTGGATGCGCTCCCCACGACTGCTGAACAGGCACA
106868 IS [GC] ACCAGCCCCACCCGCCTGAGCCATTCGGGGAAAAGGAGCTGGGAAGAACCCAACTGGATG[G/C]CTCCCCACGACTGCTGAACAGGGACATGAAGACGGGCCTGAGCTGGTCCTTGCAGACCC ctg2846 11
106885 I A CTCCATCTGAAGCCAAGCCAAGATCTGCCT
106885 P C A CGCGCCGAGGCAGGACTGGAATGCTTTCY
106885 P G A ATGACGTGGCAGACGAGGACTGGAATGCTTTCY
106885 T C A TCGGGAAAGCATTCCAGTCCTGGGCAGATCTTGGCTCTGCTCTCAGATGGAGCA
106885 T G A TCGGGAAAGCATTCCAGTCCTCGGCAGATCTTGGCTCTGCTCTCAGATGGAGCA

FIGURE 129G

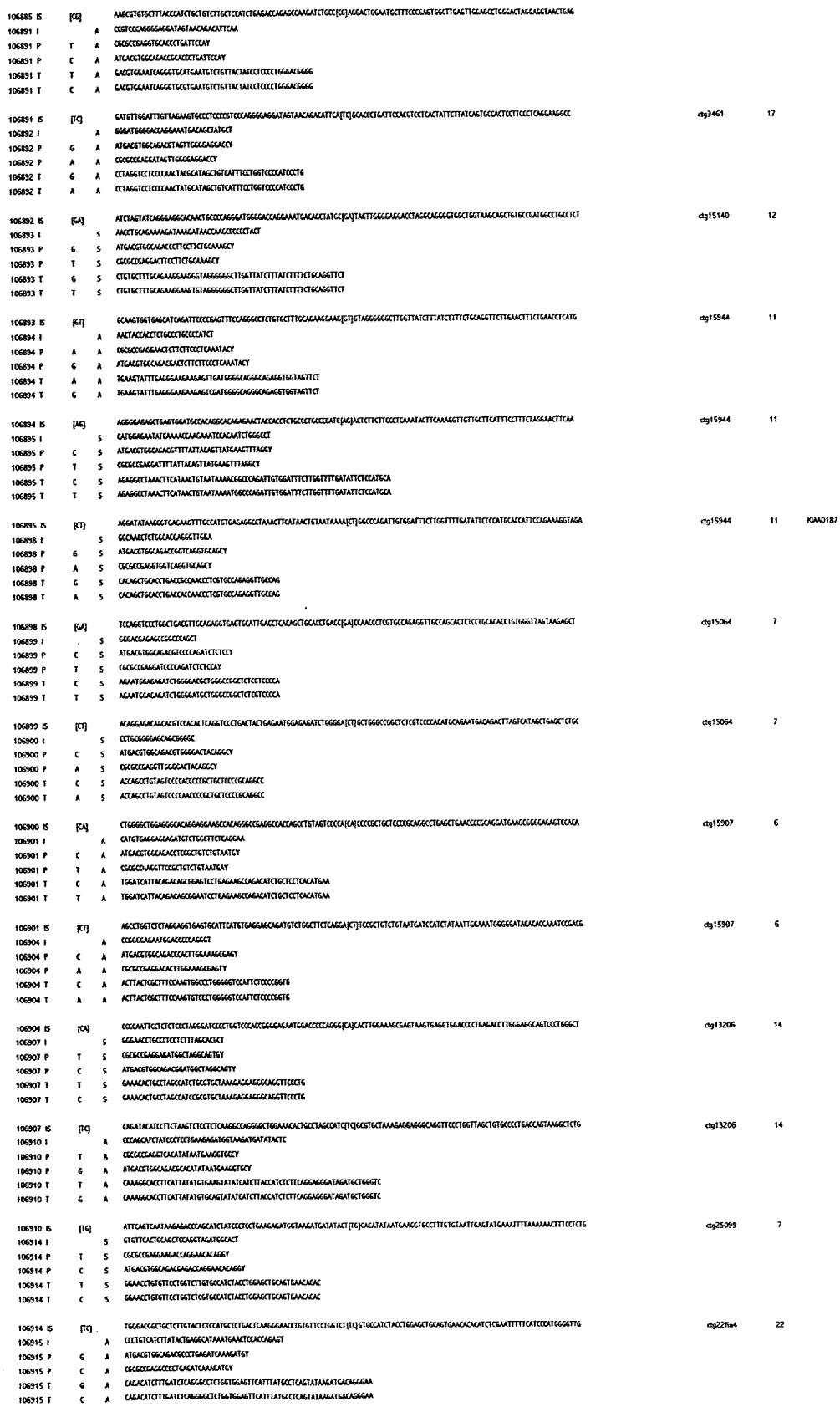


FIGURE 129G

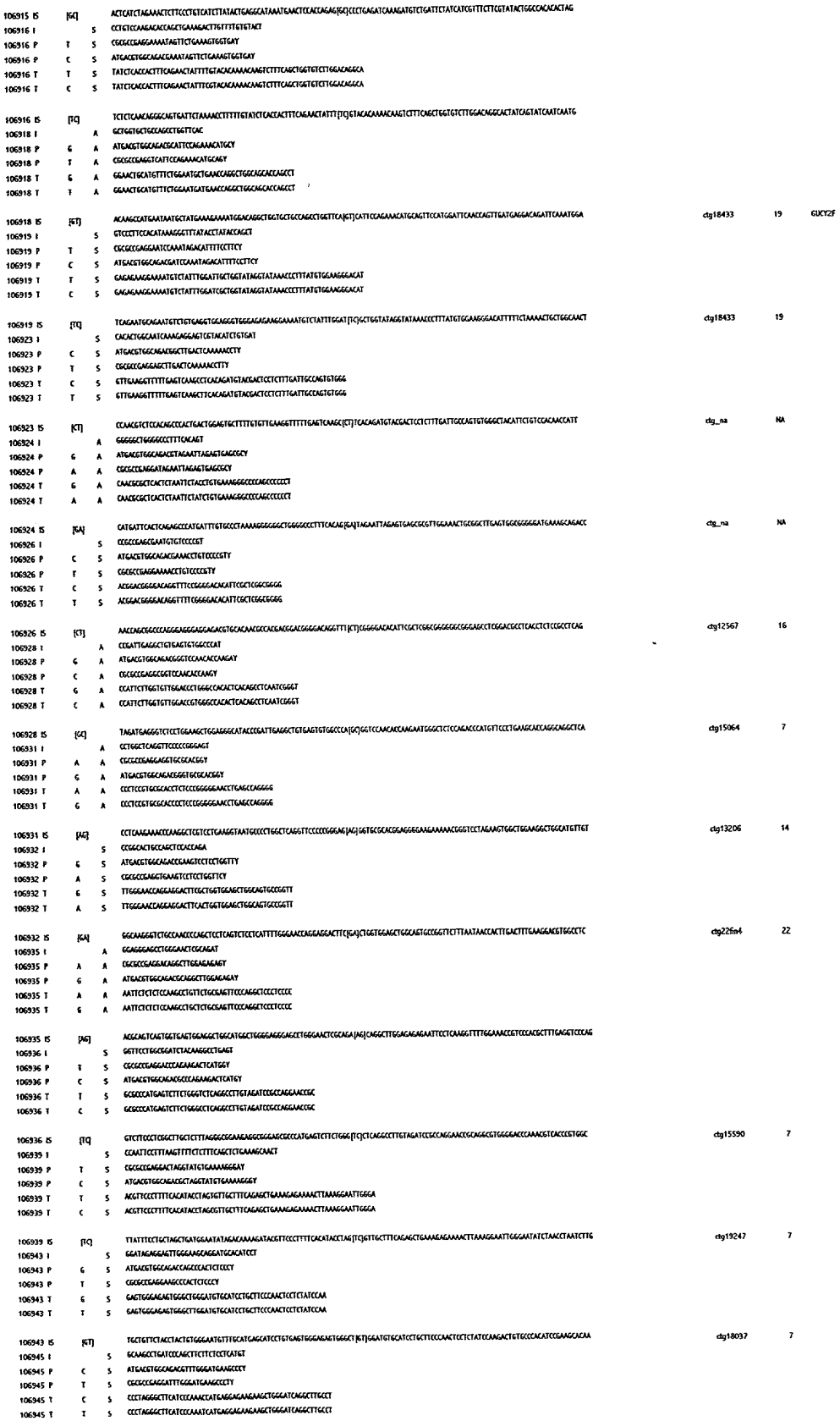

106915 IS [GC] ACTCATCTAGAAACTCTTCCCTGTCATCTTATACTGAGGCATAAATGAACTCCACCAGAG[GC]CCCTGAGATCAAAGATGTCTGATTCTATCATCGTTTCTTCGTATACTGGCCACACACTAG
106916 I S CCTGTCCAAGACACCAGCTGAAAGACTTGTTTTGTGTACT
106916 P T S CGGGCCGAGGAAAATAGTTCTGAAAGTGGTGAY
106916 P C S ATGACGTGGCAGACGAAATAGTTCTGAAAGTGGTGAY
106916 T T S TATCTCACCACTTTCAGAACTATTTTGTACACAAAACAAGTCTTTCAGCTGGTGTCTTGGACAGGCA
106916 T C S TATCTCACCACTTTCAGAACTATTTCGTACACAAAACAAGTCTTTCAGCTGGTGTCTTGGACAGGCA
106916 IS [TC] TCTCTCAACAGGGCAGTGATTCTAAAACCTTTTTGTATCTCACCACTTTCAGAACTATTT[TC]GTACACAAAACAAGTCTTTCAGCTGGTGTCTTGGACAGGCACTATCAGTATCAATCAATG
106918 I A GCTGGTGCTGCCAGCCTGGTTCAC
106918 P G A ATGACGTGGCAGACGCATTCCAGAAACATGCY
106918 P T A CGCGCCGAGGTCATTCCAGAAACATGCAGY
106918 T G A GGAACTGCATGTTTCTGGAATGCTGAACCAGGCTGGCAGCACCAGCCT
106918 T T A GGAACTGCATGTTTCTGGAATGATGAACCAGGCTGGCAGCACCAGCCT
106918 IS [GT] ACAAGCCATGAATAATGCTATGAAAGAAAATGGACAGGCTGGTGCTGCCAGCCTGGTTCA[GT]CATTCCAGAAACATGCAGTTCCATGGATTCAACCAGTTGATGAGGACAGATTCAAATGGA ctg18433 19 GUCY2F
106919 I S GTCCCTTCCACATAAAGGGTTTATACCTATACCAGCT
106919 P T S CGCGCCGAGGAATCCAAATAGACATTTTCCTTCY
106919 P C S ATGACGTGGCAGACGATCCAAATAGACATTTTCCTTCY
106919 T T S GAGAGAAGGAAAATGTCTATTTGGATTGCTGGTATAGGTATAAACCCTTTATGTGGAAGGGACAT
106919 T C S GAGAGAAGGAAAATGTCTATTTGGATCGCTGGTATAGGTATAAACCCTTTATGTGGAAGGGACAT
106919 IS [TC] TCAGAATGCAGAATGTCTGTGAGGTGGAGGGTGGGAGAGAAGGAAAATGTCTATTTGGAT[TC]GCTGGTATAGGTATAAACCCTTTATGTGGAAGGGACATTTTTCTAAAACTGCTGGCAACT ctg18433 19
106923 I S CACACTGGCAATCAAAGAGGAGTCGTACATCTGTGAT
106923 P C S ATGACGTGGCAGACGGCTTGACTCAAAAACCTY
106923 P T S CGCGCCGAGGAGCTTGACTCAAAAACCTTY
106923 T C S GTTGAAGGTTTTTGAGTCAAGCCTCACAGATGTACGACTCCTCTTGATTGCCAGTGTGGG
106923 T T S GTTGAAGGTTTTTGAGTCAAGCTTCACAGATGTACGACTCCTCTTGATTGCCAGTGTGGG
106923 IS [CT] CCAACGTCTCCACAGCCCACTGACTGGAGTGCTTTTGTGTTGAAGGTTTTTGAGTCAAGC[CT]TCACAGATGTACGACTCCTCTTTGATTGCCAGTGTGGGCTACATTCTGTCCACAACCATT ctg_na NA
106924 I A GGGGGCTGGGGCCCTTTCACAGT
106924 P G A ATGACGTGGCAGACGTAGAATTAGAGTGAGCGCY
106924 P A A CGCGCCGAGGATAGAATTAGAGTGAGCGCY
106924 T G A CAACGCGCTCACTCTAATTCTACCTGTGAAAGGGCCCCAGCCCCCCT
106924 T A A CAACGCGCTCACTCTAATTCTATCTGTGAAAGGGCCCCAGCCCCCCT
106924 IS [GA] CATGATTCACTCAGAGCCCATGATTTGTGCCCTAAAAGGGGGGCTGGGGGCCTTTCACAG[GA]TAGAATTAGAGTGAGCGCGTTGGAAACTGCGGCTTGAGTGGCGGGGGATGAAAGCAGACC ctg_na NA
106926 I S CCGCCCAGCGAATGTGTCCCCGT
106926 P C S ATGACGTGGCAGACGAAACCTGTCCCCGTY
106926 P T S CGCGCCGAGGAAAACCTGTCCCCGTY
106926 T C S ACGGACGGGGACAGGTTTCCGGGGACACATTCGCTCGGCGGGG
106926 T T S ACGGACGGGGACAGGTTTCCGGGGACACATTCGCTCGGCGGGG
106926 IS [CT] AACCAGCGGCCCAGGGAGGGAGGACAGTGCACAACGCCACGAGCGGACGGGGACAGGTTT[CT]CGGGGACACATTCGCTCGGCGGGGCGGCGAGCCTCGGACGCCTCACCTCTCCGCCTCAG ctg12567 16
106928 I A CCGATTGAGGCTGTGAGTGTGGCCCAT
106928 P G A ATGACGTGGCAGACGGGTCCAACACCAAGAY
106928 P C A CGCGCCGAGGCGGTCCAACACCAAGY
106928 T G A CCATTCTTGGTGTTGGACCGTGGGCCACACTCACAGCCTCAATCGGGT
106928 T C A CCATTCTTGGTGTTGGACCGTGGGCCACACTCACAGCCTCAATCGGGT
106928 IS [GC] TAGATGAGGGTCTCCTGGAAGCTGGAGGGCATACCGATTGAGGCTGTGAGTGTGGCCCA[GC]GGTCCAACACCAAGAATGGGCTCTCCAGACCCATGTTCCCTGAAGCACCAGGCAGGCTCA ctg15064 7
106931 I A CCTGGCTCAGGTTCCCCCGGGAGT
106931 P A A CGCGCCGAGGAGGTGCGCACGGY
106931 P G A ATGACGTGGCAGACGGGTGCGCACGGY
106931 T A A CCCTCCCTGCGCACCTCTCCCGGGGGAACCTGAGCCAGGGG
106931 T G A CCCTCCGTGCGCACCCCTCCCGGGGGAACCTGAGCCAGGGG
106931 IS [AG] CCTCAAGAAACCCAAGGCTCGTCCTGAAGGTAATGCCCCTGGCTCAGGTTCCCCCGGGAG[AG]GGTGCGCACGGAGGGCGAAGAAAAACGGGTCCTAGAAGTGGCTGGAAGGCTGGCATGTTGT ctg13206 14
106932 I S CCGGCACTGCCAGCTCCACCAGA
106932 P G S ATGACGTGGCAGACCCAAGTCCTCCTGGTTY
106932 P A S CGCGCCGAGGTGAAGTCCTCCTGGTTCY
106932 T G S TTGGGAACCAGGAGCTTCGCTGGTGGAGCTGGCAGTGCCGGTT
106932 T A S TTGGGAACCAGGAGCTTCACTGGTGGAGCTGGCAGTGCCGGTT
106932 IS [GA] GGCAAGGGTCTGCCAACCCCAGCTCCTCAGTCTCCTCATTTTGGGAACCAGGAGGACTTC[GA]CTGGTGGAGCTGGCAGTGCCGGTTCTTTAATAACCACTTGACTTTGAAGGAGGTGGCCTC ctg22fin4 22
106935 I A GGAGGGAGCCTGGGAACTCGCAGAT
106935 P A A CGCGCCGAGGACAGGCTTGGAGAGAGY
106935 P G A ATGACGTGGCAGACGCAGGCTTGGAGAGAGY
106935 T A A AATTCTCTCTCCAAGCCTGTTCTGCGAGTTCCCAGGCTCCCTCCCC
106935 T G A AATTCTCTCTCCAAGCCTGCTCTGCGAGTTCCCAGGCTCCCTCCCC
106935 IS [AG] AGGCAGTCAGTGGTGAGTGGAGGCTGGCATGGCTCGGGGAGGCAGCETGGGAACTCGCAGA[AG]CAGGCTTGCAGCAGAGAATTCCTCAAGGTTTTGGAAACCGTCCCACGCTTTGAGGTCCCAG
106936 I S GGTTCCTGGCGGATCTACAAGGCCTGAGT
106936 P T S CGCGCCGAGGACCCAGAAGACTCATGGY
106936 P C S ATGACGTGGCAGACGCCCAGAAGACTCATGY
106936 T T S GCGCCCATGAGTCTTCTGGGCTCTCAGGCCTTGTAGATCCGCCAGGAACCGC
106936 T C S GCGCCCATGAGTCTTCTGGGCCTCAGGCCTTGTAGATCCGCCAGGAACCGC
106936 IS [TC] GTCTTCCCTCGGCTTGCTCTTTAGGGCGGAAGAGGCGGGAGCGCCCATGAGTCTTCTGGG[TC]CTCAGGCCTTGTAGATCCGCCAGGAACCGCAGGCGTGGGGAACCCAAACGTCACCCGTGGC ctg15590 7
106939 I S CCAATTCCTTTAAGTTTTCTCTTTCAGCTCTGAAAGCAACT
106939 P T S CGCGCCGAGGACTAGGTATGTGAAAAGGGAY
106939 P C S ATGACGTGGCAGACGCTAGGTATGTGAAAAGGGAY
106939 T T S ACGTTCCCTTTTCACATACCTAGTGTTGCTTTCAGAGCTGAAAGAGAAAACTTAAAGGAATTGGGA
106939 T C S ACGTTCCCTTTTCACATACCTAGCGTTGCTTTCAGAGCTGAAAGAGAAAACTTAAAGGAATTGGGA
106939 IS [TC] TTATTTCCTGCTAGCTGATGGAATATAGACAAAAGATAGGTTCCCTTTTCACATACCTAG[TC]GTTGCTTTCAGAGCTGAAAGAGAAAACTTAAAGGAATTGGGAATATCTAACCTAATCTTG ctg19247 7
106943 I S GGATAGAGGAGTTGGGAAGCAGGEATGCACATCCT
106943 P G S ATGACGTGGCAGACAGCCCACTCTCCCY
106943 P T S CGCGCCGAGGAAGCCCACTCTCCCY
106943 T G S GAGTGGGAGAGTGGGCTGGGATGTGCATCCTGCTTCCCAACTCCTCTATCCAA
106943 T T S GAGTGGGAGAGTGGGCTTGGATGTGCATCCTGCTTCCCAACTCCTCTATCCAA
106943 IS [GT] TGCTGTCTACCTACTGTGGGAATGTTTGCATCAGCATCCTGTGAGTGGGAGAGTGGGCT[GT]GGATGTGCATCCTGCTTCCCAACTCCTCTATCCAAGACTGTGCCCACATCCGAAGCACAA ctg18037 7
106945 I S GCAAGCCTGATCCCAGCTTCTTCTCCTCATGT
106945 P C S ATGACGTGGCAGACGTTTGGGATGAAGCCCY
106945 P T S CGCGCCGAGGATTTGGGATGAAGCCCTY
106945 T C S CCCTAGGGCTTCATCCCAAACTATGAGGAGAAGAAGCTGGGATCAGGCTTGCCT
106945 T T S CCCTAGGGCTTCATCCCAAATCATGAGGAGAAGAAGCTGGGATCAGGCTTGCCT

FIGURE 129G

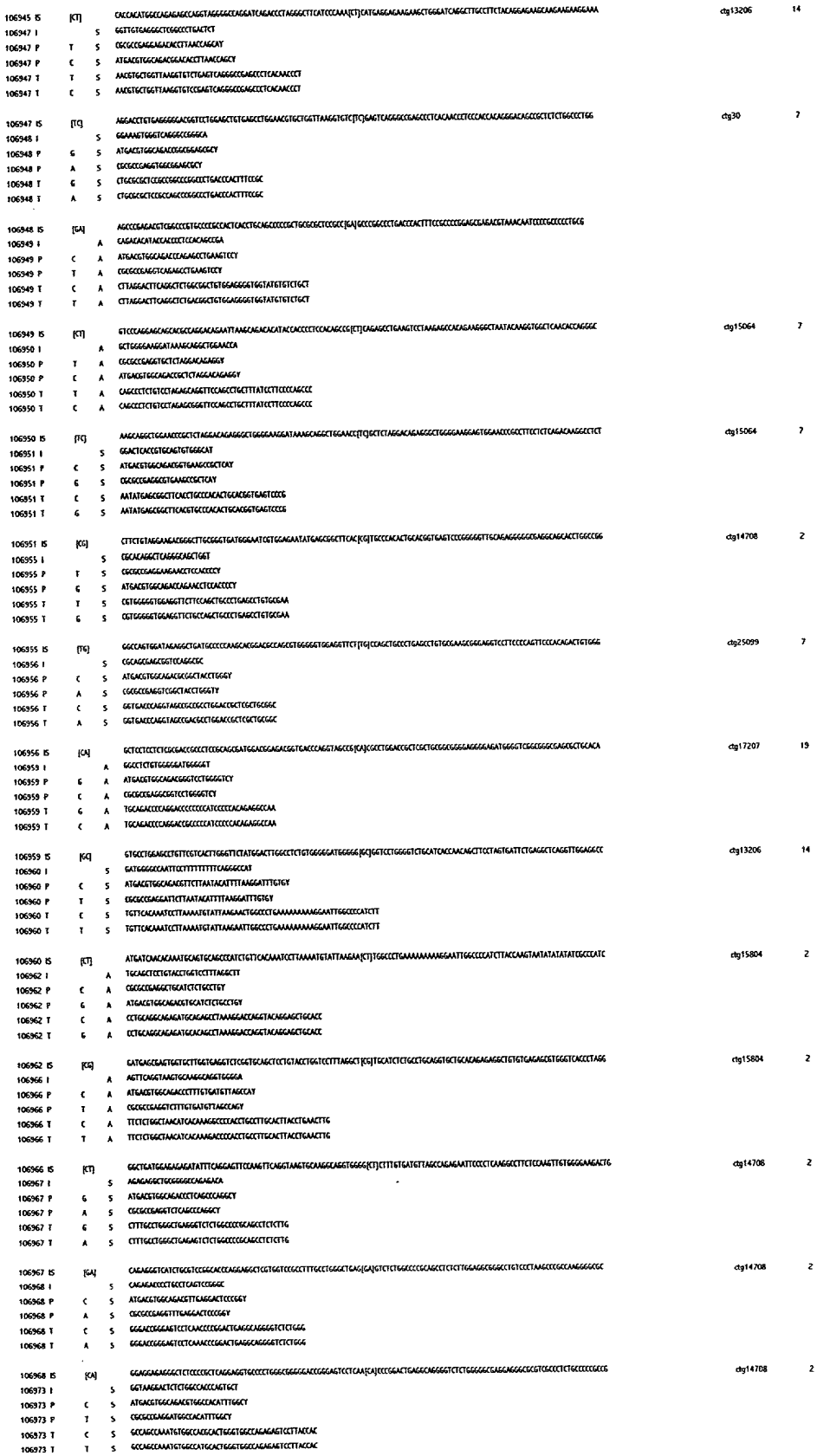
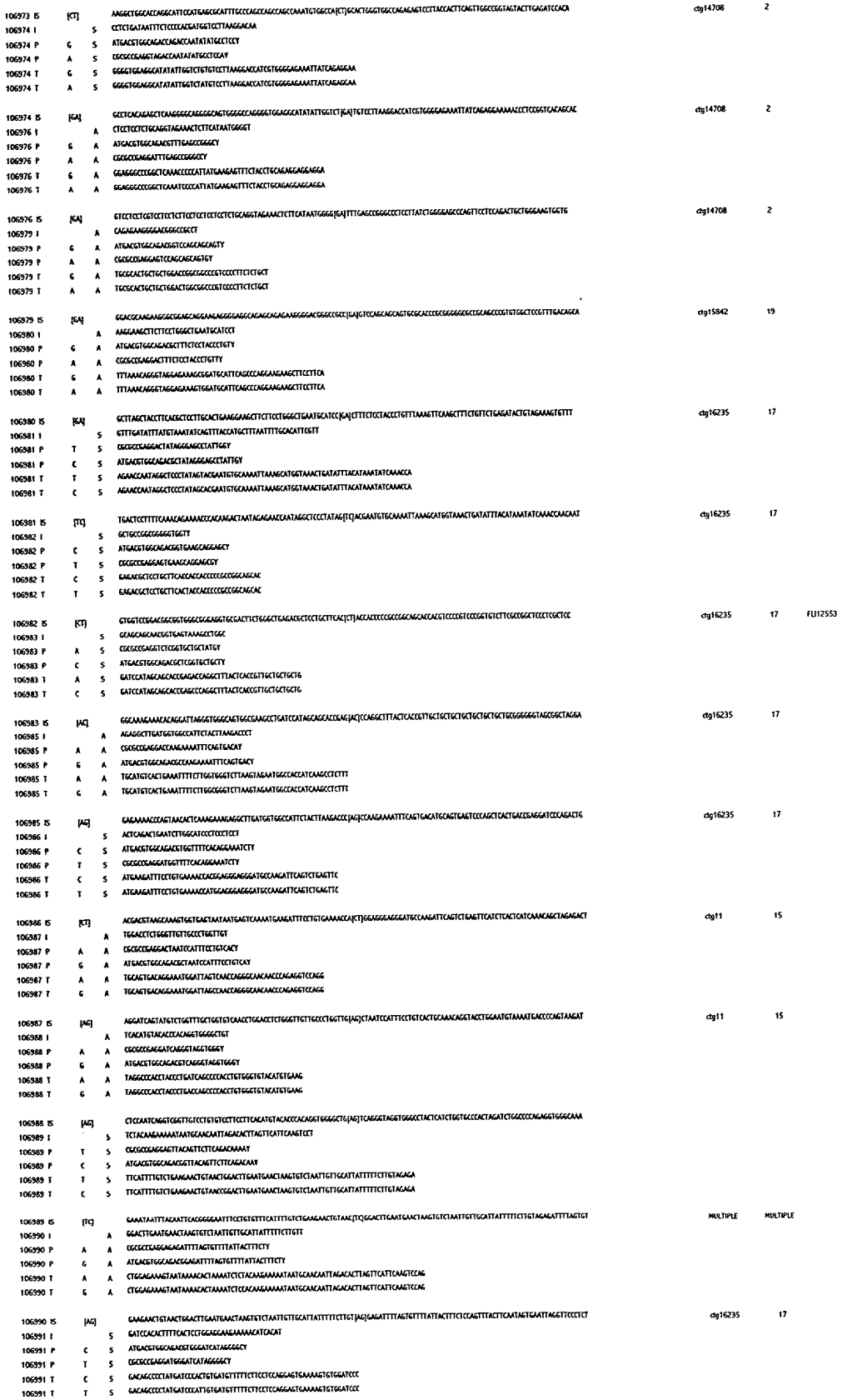

106945 IS [CT] CACCACATGGCCAGAGAGCCAGGTAGGGGCCAGGATCAGACCCTAGGGCTTCATCCCAAA[CT]CATGAGCAGAAGAAGCTGGGATCAGGCTTGCCTTCTACAGGAGAAGCAAGAAGAAGGAAA ctg13206 14
106947 I S GGTTGTCAGGGCTCGGCCCTGACTCT
106947 P T S CGCGCCGAGGAGACACCTTAACCAGCAY
106947 P C S ATGACGTGGCAGACGGACACCTTAACCAGCY
106947 T T S AACGTGCTGGTTAAGGTGTCTGAGTCAGGGCCGAGCCCTCACAACCCT
106947 T C S AACGTGCTGGTTAAGGTGTCCGAGTCAGGGCCGAGCCCTCACAACCCT
106947 IS [TC] AGGACCTGTGAGGGGGACGGTCCTGGAGCTGTGAGCCTGGAACGTGCTGGTTAAGGTGTC[TC]GAGTCAGGGCCGAGCCCTCACAACCCTCCCACCACAGGGACAGCCGCTCTCTGGCCCTGG ctg30 7
106948 I S GGAAAGTGGGTCAGGGCCGGGCA
106948 P G S ATGACGTGGCAGACCGGCGGAGCGCY
106948 P A S CGCGCCGAGGTGGCGGAGCGCY
106948 T G S CTGCGCGCTCCGCCGGCCGGCCCTGACCCACTTTCCGC
106948 T A S CTGCGCGCTCCGCCAGCCGGCCCTGACCCACTTTCCGC
106948 IS [GA] AGCCCGAGACGTGGCCCGTGCCCCGCCACTCACCTGCAGCCCCCGCTGCGCGCTCCGCC[GA]GCCCGCCCTGACCCACTTTCCGCCCCCGGAGCCAGACGTAAACAATCCCCCGCCCCCTGCG
106949 I A CAGACACATACCACCCCTCCACAGCCGA
106949 P C A ATGACGTGGCAGACCCAGAGCCTGAAGTCCY
106949 P T A CGCGCCGAGGTCAGAGCCTGAAGTCCY
106949 T C A CTTAGGACTTCAGGCTCTGGCGGCTGTGGAGGGGTGGTATGTGTCTGCT
106949 T T A CTTAGGACTTCAGGCTCTGACGGCTGTGGAGGGGTGGTATGTGTCTGCT
106949 IS [CT] GTCCCAGGAGCAGCACGCCAGGACAGAATTAAGCAGACACATACCACCCCTCCACAGCCG[ET]CAGAGCCTGAAGTCCTAAGAGCCACAGAAGGGCTAATACAAGGTGGCTCAACACCAGGGC ctg15064 7
106950 I A GCTGGGGAAGGATAAAGCAGGCTGGAACCA
106950 P T A CGCGCCGAGGTGCTCTAGGACAGAGGY
106950 P C A ATGACGTGGCAGACCGCTCTAGGACAGAGGY
106950 T T A CAGCCCTCTGTCCTAGAGCAGGTTCCAGCCTGCTTTATCCTTCCCCAGCCC
106950 T C A CAGCCCTCTGTCCTAGAGCGGGTTCCAGCCTGCTTTATCCTTCCCCAGCCC
106950 IS [TC] AAGCAGGCTGGAACCCGCTCTAGGACAGAGGGCTGGGGAAGGATAAAGCAGGCTGGAACC[TC]GCTCTAGGACAGAGGCTGGGGAAGGAGTGGAACCCGCCTTCCTCTCAGACAAGGCCTCT ctg15064 7
106951 I S GGACTCACCGTGCAGTGTGGGCAT
106951 P C S ATGACGTGGCAGACGGTGAAGCCGCTCAY
106951 P G S CGCGCCGAGGCGTGAAGCCGCTCAY
106951 T C S AATATGAGCGGCTTCACCTGCCCACACTGCACGGTGAGTCCCG
106951 T G S AATATGAGCGGCTTCACGTGCCCACACTGCACGGTGAGTCCCG
106951 IS [CG] CTTCTGTAGGAAGACGGGCTTGCGGGTGATGGGAATCGTGGAGAATATGAGCGGCTTCAC[CG]TGCCCACACTGCACGGTGAGTCCCGGGGGGTTGCAGAGGGGGCGAGGCAGCACCTGGCCGG ctg14708 2
106955 I S CGCACAGGCTCAGGGCAGCTGGT
106955 P T S CGCGCCCAGGAAGAACCTCCACCCCY
106955 P G S ATGACGTGGCAGACAGAACCTCCACCCCY
106955 T T S CGTGGGGGTGGAGGTTCTTCCAGCTGCCCTGAGCCTGTGCGAA
106955 T G S CGTGGGGGTGGAGGTTCTGCCAGCTGCCCTGAGCCTGTGCGAA
106955 IS [TG] GGCCAGTGGATAGAGGCTGATGCCCCAAGCACGGAGCGCCAGCGTGGGGGTGGAGGTTCTTG[CG]CCAGCTGCCCTGAGCCTGTGCGAAGCGGGAGGTCCTTCCCCAGTTCCCACAGACTGTGGG ctg25099 7
106956 I S CGCAGCGAGCGGTCCAGCCC
106956 P C S ATGACGTGGCAGACGCGGCTACCTGGGY
106956 P A S CGCGCCGAGGTCGGCTACCTGGGTY
106956 T C S GGTGACCCAGGTAGCCGCCCCTGGACCGCTCGCTGCGGC
106956 T A S GGTGACCCAGGTAGCCGACGCCTGGACCGCTCGCTGCGGC
106956 IS [CA] GCTCCTCCTCTCGCGACCGCCCTCCGCAGCGATGGACGCGAGACGGTGACCCAGGTAGCCG[CA]CGCCTGGACGCTCGCTGCGGCGGGGAGGGGAAGATGGGGTCGGCGGGCCGAGCGCTGCACA ctg17207 19
106959 I A GGCCTCTGTGGGGGATGGGGGT
106959 P G A ATGACGTGGCAGACGGGTCCTGGGGTCY
106959 P C A CGCGCCGAGGCGGTCCTGGGGTCY
106959 T G A TGCAGACCCCAGGACGCCCCCATCCCCCACAGAGCCAA
106959 T C A TGCAGACCCCAGGACGCCCCCATCCCCCACAGAGCCAA
106959 IS [GC] GTGCCTGGAGCCTGTTCGTCACTTGGGTTCTATGGACTTGGCCTCTGTGGGGGATGGGGG[GC]GGTCCTGGGGTCTGCATCACCAACAGCTTCCTAGTGATTCTGAGGCTCAGGTTGGAGCCC ctg13206 14
106960 I S GATGGGGCCAATTCCTTTTTTTTTCAGGGCCAT
106960 P C S ATGACGTGGCAGAGGTTCTTAATACATTTTAAGGATTTGTGY
106960 P T S CGCGCCGAGGATTCTTAATACATTTTAAGGATTTGTGY
106960 T C S TGTTCACAAATCCTTAAAATGTATTAAGAACTGGCCCTGAAAAAAAAAGGAATTGGCCCCATCTT
106960 T T S TGTTCACAAATCCTTAAAATGTATTAAGAATTGGCCCTGAAAAAAAAAGGAATTGGCCCCATCTT
106960 IS [CT] ATGATCAACACAAATGCAGTGCAGCCCATCTGTTCACAAATCCTTAAAATGTATTAAGAA[CT]TGGCCCTGAAAAAAAAAGGAATTGGCCCCATCTTACCAAGTAATATATATATGCCCATC ctg15804 2
106962 I A TGCAGCTCCTGTACCTGGTCCTTTAGGCTT
106962 P C A CGCGCCGAGGCTGCATCTCTGCCTGY
106962 P G A ATGACGTGGCAGAGGTGCATCTCTGCCTGY
106962 T C A CCTGCAGGCAGAGATGCAGAGCTAAAGGACAGGTACAGGAGCTGCACC
106962 T G A CCTGCAGGCAGAGATGCAGAGCTAAAGGACAGGTACAGGAGCTGCACC
106962 IS [CG] GATGAGCGAGTGGTGCTTGGTGAGGTCTCGGTGCAGCTCCTGTACCTGGTCCTTTAGGCT[CG]TGCATCTCTGCCTGCAGGTGCTGCAGAGAGAGGCTGTGTGAGAGCGTGGGTCACCCTAGG ctg15804 2
106966 I A AGTTCAGGTAAGTGCAAGGCAGGTGGGGA
106966 P C A ATGACGTGGCAGACCCTTTGTGATGTTAGCCAY
106966 P T A CGCGCCGAGGTCTTTGTGATGTTAGCCAGY
106966 T C A TTCTCTGGCTAACATCACAAAGGCCCCACCTGCCTTGCACTTACCTGAACTTG
106966 T T A TTCTCTGGCTAACATCACAAAGACCCCACCTGCCTTGCACTTACCTGAACTTG
106966 IS [CT] GGCTCATGGAAGAGAGATATTTCAGGAGTTCCAAGTTCAGGTAAGTGCAAGGCAGGTGGGG[CT]CTTTGTGATGTTAGCCAGAGAATTCCCCTCAAGGCCTTCTCCAAGTTGTGGGGAAGACTG ctg14708 2
106967 I S AGAGAGGCTGCGGGGGCCAGAGACA
106967 P G S ATGACGTGGCAGACCCTCAGCCCAGGCY
106967 P A S CGCGCCGAGGTCTCAGCCCAGGCY
106967 T G S CTTTGCCTGGGCTGAGGGTCTCTGGCCCCGCAGCCTCTCTTG
106967 T A S CTTTGCCTGGGCTGAGAGTCTCTGGCCCCGCAGCCTCTCTTG
106967 IS [GA] CAGAGGCTCATCTGCGTCCGGCACCCAGGAGGCYCGTGGTCCGCCTTTGCCTGGGCTGAG[GA]GTCTCTGGCCCCGCAGCCTCTCTTGGAGGCGGGCCTGTCCCTAAGCCCGCCAAGGGGCGC ctg14708 2
106968 I S CAGAGACCCCTGCCTCAGTCCGGGC
106968 P C S ATGACGTGGCAGAGGTTCAGGACTCCCGGY
106968 P A S CGCGCCGAGGTTTGAGGACTCCCGGY
106968 T C S GGGACCGGGAGTCCTCAACCCTGGACTGAGGCAGGGGTCTCTGGG
106968 T A S GGGACCGGGAGTCCTCAAACCCGGACTGAGGCAGGGGTCTCTGGG
106968 IS [CA] GGAGGAGAGGGCTCTCCCCGCTCAGGAGGTGCCCCTGGGCGGGGGACCGGGAGTCCTCAA[CA]CCCGGACTGAGGCAGGGGTCTCTGGGGGCGAGGAGGGCGCGTCGCCCTCTGCCCCCGCCG ctg14708 2
106973 I S GGTAAGGACTCTCTGGCCAGCCAGTGCT
106973 P C S ATGACGTGGCAGACGTGGCCACATTTGGCY
106973 P T S CGCGCCGAGGATGGCCACATTTGGCY
106973 T C S GCCAGCCAAATGTGGCCAGCACTGGGTGGCCAGAGAGTCCTTACCAC
106973 T T S GCCAGCCAAATGTGGCCATGCACTGGGTGGCCAGAGAGTCCTTACCAC

FIGURE 129G



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FIGURE 129G

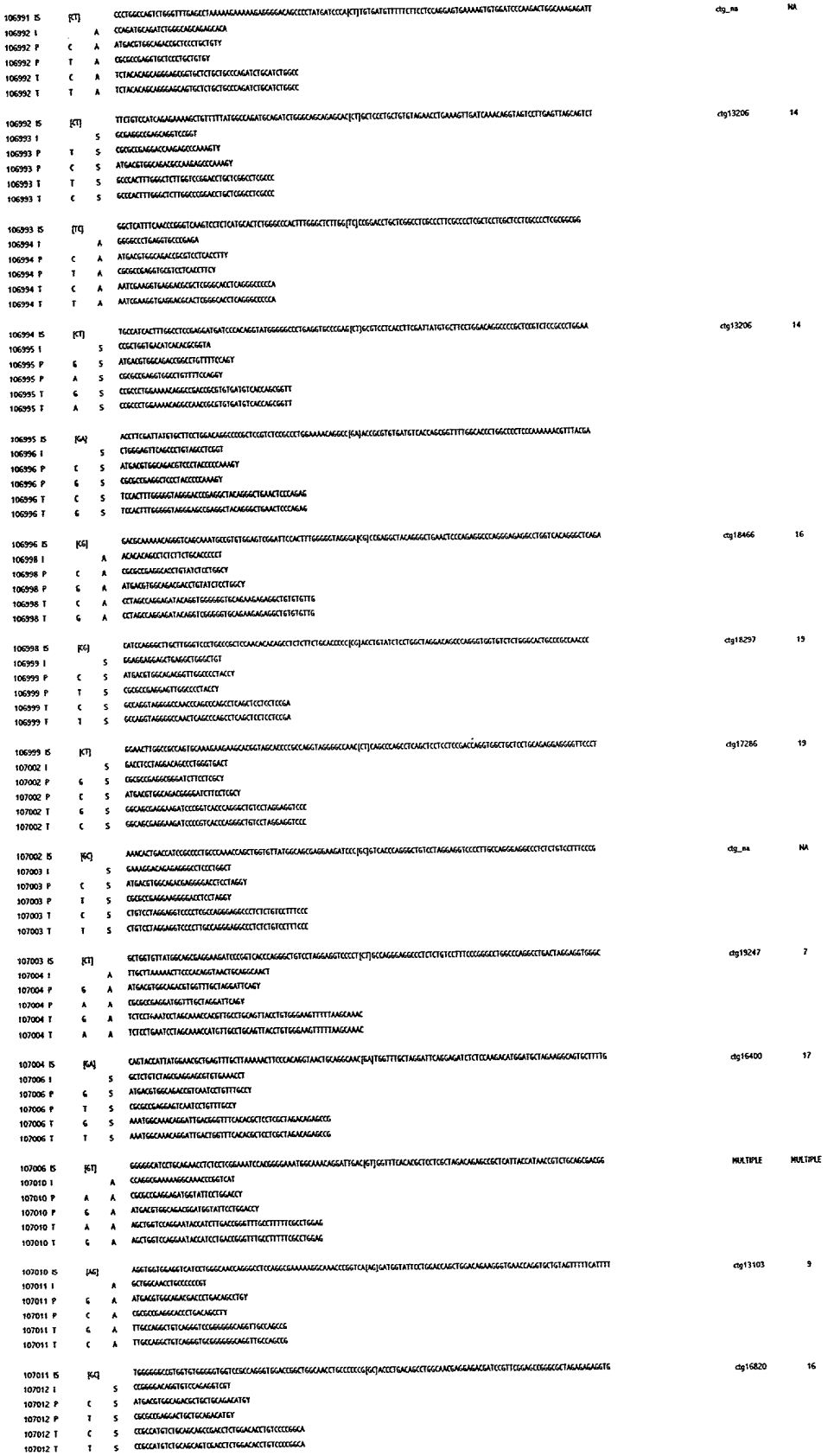
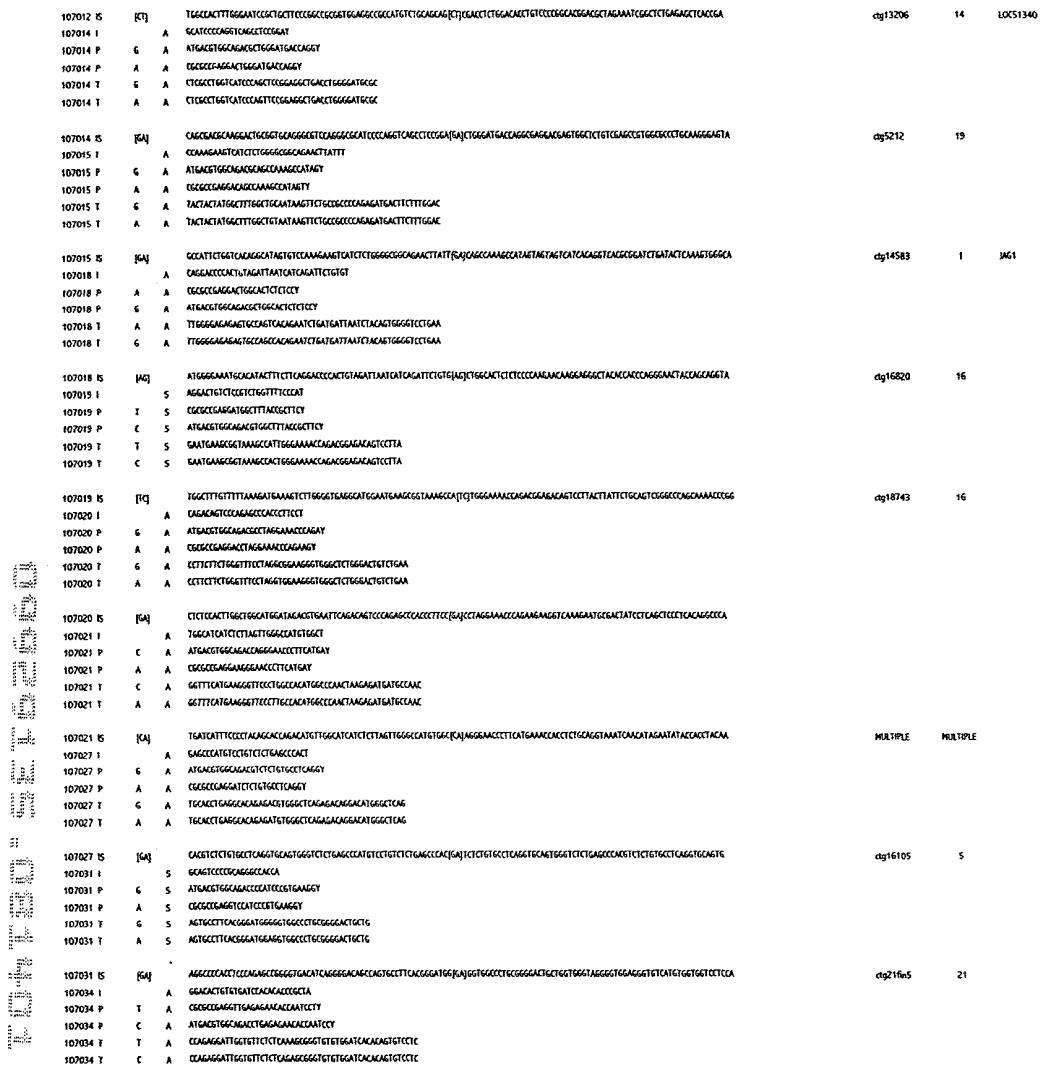
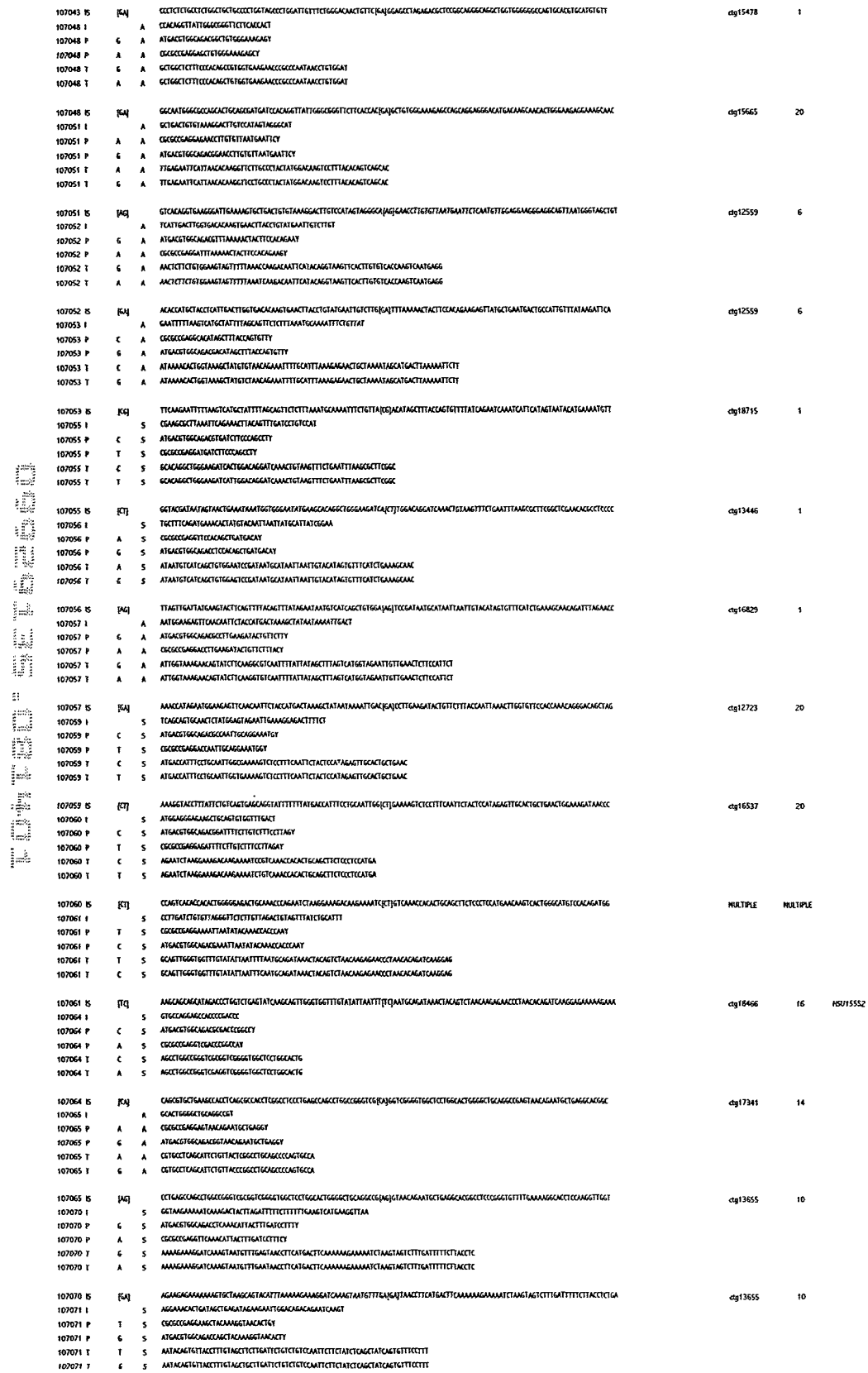


FIGURE 129G



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FIGURE 129G


107043 IS [GA] CCCTCTCTGCCTCTGGCTGCTGCCCCTGGTAGCCCTGGATTGTTTCTGGGACAACTGTTC[GA]GGAGCCTAGAGACGCTCCGGCAGGGCAGGCTGGTGGGGGGCCAGTGCACGTGCATGTGTT ctg15478 1
107048 I A CCACAGGTTATTGGGCGGGTCCTTCACCACT
107048 P G A ATGACCTGGCAGCAGCGCTGTGGGAAAGAGY
107048 P A A CGCGCCCAGGAGCTGTGGGAAAGAGCY
107048 T G A GCTGGCTCTTTCCCACAGCGGTGGTGAAGAACCCGCCCAATAACCTGTGGAT
107048 T A A GCTGGCTCTTTCCCACAGCTGTGGTGAAGAACCGCCCCAATAACCTGTGGAT
107048 IS [GA] GGCAATGGGCGCCAGCACTGCAGCGATGATCCACAGGTTATTGGGCGGGTTCTTCACCAC[GA]GCTGTGGGAAAGAGCCAGCAGGAGGGACATGACAAGCAACACTGGGAAGAGGAAAGCAAC ctg15665 20
107051 I A GCTGACTGTGTAAAGGACTTGTCCATAGTAGGGCAT
107051 P A A CGCGCCCAGGAGAACCTTGTGTTAATGAATTCY
107051 P G A ATGACGTGGCAGAGCGGAACCTTGTGTTAATGAATTCY
107051 T A A TTGAGAATTCATTAACACAAGGTTCTTGCCCTACTATGGACAAGTCCTTTACACAGTCAGCAC
107051 T G A TTGAGAATTCATTAACACAAGGTTCCTGCCCTACTATGGACAAGTCCTTTACACAGTCAGCAC
107051 IS [AG] GTCACAGGTGAAGGGATTGAAAAGTGCTGACTGTGTAAAGGACTTGTCCATAGTAGGGCA[AG]GAACCTTGTGTTAATGAATTCTCAATGTTGGAGGAAGGGAGGCAGTTAATGGGTAGCTGT ctg12559 6
107052 I A TCATTGACTTGGTGACACAAGTGAACTTACCTGTATGAATTGTCTTGT
107052 P G A ATGACGTGGCAGAGTTTAAAAACTACTTCCACAGAAY
107052 P A A CGCGCCCAGGATTTAAAAACTACTTCCACAGAAGY
107052 T G A AACTCTTCTGTGGAAGTAGTTTTAAACCAAGACAATTCATACAGGTAAGTTCACTTGTGTCACCAAGTCAATGAGG
107052 T A A AACTCTTCTGTGGAAGTAGTTTTAAATCAAGACAATTCATACAGGTAAGTTCACTTGTGTCACCAAGTCAATGAGG
107052 IS [GA] ACACCATGCTACCTCATTGACTTGGTGACACAAGTGAACTTACCTGTATGAATTGTCTTG[GA]TTTAAAAACTACTTCCACAGAAGAGTTATGCTGAATGACTGCCATTGTTTATAAGATTCA ctg12559 6
107053 I A GAATTTTTAAGTCATGCTATTTTAGCAGTTCTCTTTAAATGCAAAATTTCTGTTA[CG]ACATAGCTTTACCAGTGTTTTATCAGAATCAAATCATTCATAGTAATACATGAAAATGTT ctg18715 1
107053 P C A CGCGCCGAGGCACATAGCTTTACCAGTGTTY
107053 P G A ATGACGTGGCAGACGACATAGCTTTACCAGTGTTY
107053 T C A ATAAAACACTGGTAAAGCTATGTGTAACAGAAATTTTGCATTTAAAGAGAACTGCTAAAATAGCATGACTTAAAAATTCTT
107053 T G A ATAAAACACTGGTAAAGCTATGTGTAACAGAAATTTTGCATTTAAAGAGAACTGCTAAAATAGCATGACTTAAAAATTCTT
107053 IS [CG] TTCAAGAATTTTTAAGTCATGCTATTTTAGCAGTTCTCTTTAAATGCAAAATTTCTGTTA[CG]ACATAGCTTTACCAGTGTTTTATCAGAATCAAATCATTCATAGTAATACATGAAAATGTT ctg18715 1
107055 I S CGAAGCGCTTAAATTCAGAAACTTACAGTTTGATCCTGTCCAT
107055 P C S ATGACGTGGCAGACGTGATCTTCCCAGCCTY
107055 P T S CGCGCCGAGGATGATCTTCCCAGCCTY
107055 T C S GCACAGGCTGGGAAGATCATTGGACAGGATCAAACTGTAAGTTTCTGAATTTAAGCGCTTCGGC
107055 T T S GCACAGGCTGGGAAGATCATTGGACAGGATCAAACTGTAAGTTTCTGAATTTAAGCGCTTCGGC
107055 IS [CT] GGTACGATAATAGTAACTGAAATAAATGGTGGGAATATGAAGCACAGGCTGGGAAGATCA[CT]TGGACAGCATCAAACTGTAAGTTTCTGAATTTAAGCGCTTCGGCTCGAACACGCCTCCCC ctg13446 1
107056 I S TGCTTTCAGATGAAACACTATGTACAATTAATTATGCATTATCGGAA
107056 P A S CGCGCCGAGGTTCCACAGCTGATGACAY
107056 P G S ATGACGTGGCAGACCTCCACAGCTGATGACAY
107056 T A S ATAATGTCATCAGCTGTGGAATCCGATAATGCATAATTAATTGTACATAGTGTTTCATCTGAAAGCAAC
107056 T G S ATAATGTCATCAGCTGTGGAGTCCGATAATGCATAATTAATTGTACATAGTGTTTCATCTGAAAGCAAC
107056 IS [AG] TTAGTTGATTATGAAGTACTYCAGTTTTACAGTTTATAGAATAATGTCATCAGCTGTGGA[AG]TCCGATAATGCATAATTAATTGTACATAGTGTTTCATCTGAAAGCAACAGATTTAGAACC ctg16829 1
107057 I A AATGGAAGAGTTCAACAATTCTACCATGACTAAAGCTATAATAAAATTGACTY
107057 P G A ATGACGTGGCAGACGCCTTGAAGATACTGTTCTTY
107057 P A A CGCGCCGAGGACCTTGAAGATACTGTTCTTTACT
107057 T G A ATTGGTAAAGAACAGTATCTYCAAGGCGTCAATTTTATTATAGCTTTAGTCATGGTAGAATTGTTGAACTCTTCCATTCT
107057 T A A ATTGGTAAAGAACAGTATCTYCAAGGTGTCAATTTTATTATAGCTTTAGTCATGGTAGAATTGTTGAACTCTTCCATTCT
107057 IS [GA] AAACCATAGAATGGAAGAGTTCAACAATTCTACCATGACTAAAGCTATAATAAAATTGAC[GA]CCTTGAAGATACTGTTCTTTACCAATTAAACTTGGTGTTCCACCAAACAGGGACAGCTAG ctg12723 20
107059 I S TCAGCAGTGCAACTCTATGGAGTAGAATTGAAAGGAGACTTTTCT
107059 P C S ATGACGTGGCAGACGCCAATTGCAGGAAATGY
107059 P T S CGCGCCGAGGACCAATTGCAGGAAATGGY
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107059 IS [CT] AAAGGTACCTTTATTCTGTCAGTGAGCAGGTATTTTTTTATGACCATTTCCTGCAATTGG[CT]GAAAAGTCTCCTTTCAATTCTACTCCATAGAGTTGCACTGCTGAACTGGAAAGATAACCC ctg16537 20
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107060 P C S ATGACGTGGCAGACGGATTTTCTTGTCTTTCCTTAGY
107060 P T S CGCGCCGAGGAGATTTCTTGTCTTTCCTTAGAT
107060 T C S AGAATCTAAGGAAAGACAAGAAAATCCGTCAAACCACACTGCAGCTTCTCCCTCCATGA
107060 T T S AGAATCTAAGGAAAGACAAGAAAATCTGTCAAACCACACTGCAGCTTCTCCCTCCATGA
107060 IS [CT] CCAGTCACACCACACTGGGGGAGACTGCAAACCCAGAATCTAAGGAAAGACAAGAAAATC[CT]GTCAAACCACACTGCAGCTTCTCCCTCCATGAACAAGTCACTGGGCATGTCCACAGATGG MULTIPLE MULTIPLE
107061 I S CCTTGATCTGTGTTAGGGTTCTCTTGTTAGACTGTAGTTTATCTGCATTT
107061 P T S CGCGCCGAGGAAAATTAATATACAAACCACCCAAY
107061 P C S ATGACGTGGCAGACGAAATTAATATACAAACCACCCAAY
107061 T T S GCAGTTGGGTGGTTTGTATATTAATTTTAATGCAGATAAACTACAGTCTAACAAGAGAACCCTAACACAGATCAAGGAG
107061 T C S GCAGTTGGGTGGTTTGTATATTAATTTCAATGCAGATAAACTACAGTCTAACAAGAGAACCCTAACACAGATCAAGGAG
107061 IS [TC] AAGCAGCAGCATAGACCCTGGTCTGAGTATCAAGCAGTTGGGTGGTTTGTATATTAATTT[TC]AATGCAGATAAACTACAGTCTAACAAGAGAACCCTAACACAGATCAAGGAGAAAAAGAAA ctg18466 16 HSU15552
107064 I S GTGCCAGGAGCCACCCCGACCC
107064 P C S ATGACGTGGCAGACGCGACCCGGCCY
107064 P A S CGCGCCGAGGTCGACCCGGCCAY
107064 T C S AGCCTGGCCGGGTCGCGGTCGGGGTGGCTCCTGGCACTG
107064 T A S AGCCTGGCCGGGTCGAGGTCGGGGTGGCTCCTGGCACTG
107064 IS [CA] CAGCGTGCTGAAGCCACCTCAGCGCCACCTCGGCCTCCCTGAGCCAGCCTGGCCGGGTCG[CA]GGTCGGGGTGGCTCCTGGCACTGGGGCTGCAGGCCGAGTAACAGAATGCTGAGGCACGGC ctg17341 14
107065 I A GCACTGGGGCTGCAGGCCGT
107065 P A A CGCGCCGAGGAGTAACAGAATGCTGAGGY
107065 P G A ATGACGTGGCAGACGGTAACAGAATGCTGAGGY
107065 T A A CGTGCCTCAGCATTCTGTTACCCGGCCTGCAGCCCCAGTGCCA
107065 T G A CGTGCCTCAGCATTCTGTTACCCGGCCTGCAGCCCCAGTGCCA
107065 IS [AG] CCTGAGCCAGCCTGGCCCGGGTCGCGGTCGGGGTGGCTCCTGGCACTGGGGCTGCAGGCCG[AG]GTAACAGAATGCTGAGGCACGGCCTCCCGGGTGTTTTGAAAAGGCACCTCCAAGGTTGGT ctg13655 10
107070 I S GGTAAGAAAAATCAAAGACTACTTAGATTTTTCTTTTTTGAAGTCATGAAGGTTAA
107070 P G S ATGACGTGGCAGACCTCAAACATTACTTTGATCCTTTY
107070 P A S CGCGCCGAGGTTCAAACATTACTTTGATCCTTTCY
107070 T G S AAAAGAAAGGATCAAAGTAATGTTTGAGTAACCTTCATGACTTCAAAAAAGAAAAATCTAAGTAGTCTTTGATTTTTCTTACCTC
107070 T A S AAAAGAAAGGATCAAAGTAATGTTTGAATAACCTTCATGACTTCAAAAAAGAAAAATCTAAGTAGTCTTTGATTTTTCTTACCTC
107070 IS [GA] AGAAGAGAAAAAAAGTGCTAAGCAGTACATTTAAAAAGAAAGGATCAAAGTAATGTTTG[AG]TAACCTTCATGACTTCAAAAAAGAAAAATCTAAGTAGTCTTTGATTTTTCTTACCTCTGA ctg13655 10
107071 I S AGCAAACACTGATAGCTGAGATAGAAGAATTGGACAGACAGAATCAAGT
107071 P T S CGCGCCGAGGAAGCTACAAAGGTAACACTGY
107071 P G S ATGACGTGGCAGACCAGCTACAAAGGTAACACTY
107071 T T S AATACAGTGTTACCTTTGTAGCTTCTTGATTCTGTCTGTCCAATTCTTCTATCTCAGCTATCAGTGTTTCCTTT
107071 T G S AATACAGTGTTACCTTTGTAGCTGCTTGATTCTGTCTGTCCAATTCTTCTATCTCAGCTATCAGTGTTTCCTTT

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107071 IS  [TG]      TAGTTTACTTAGTAGAATGTGCTGCCTTACTGTATTTAATACAGTGTTACCTTTGTAGCT[TG]CTTGATTCTGTCTGTCCAATTCTCTATCTCAGCTATCAGTGTTTCCTTTTCACTAATAC   ctg13655   10
107072 I       S     AAGAGAAACTTGGTGCTAGAGGACAAACTTACAGTCT
107072 P   C   S     ATGACGTGGCAGAGCTGCATCTGTCTAGGY
107072 P   T   S     CGCGCCGAGGACTGCATCTGTCTAGGGY
107072 T   C   S     ATAACCCTAGACAGATGCAGCGACTGTAAGTTTGTCCTCTAGCACCAAGTTCTTCTTTA
107072 T   T   S     ATAACCCTAGACAGATGCAGTGACTGTAAGTTTGTCCTCTAGCACCAAGTTCTTCTTTA

107072 IS  [CT]      CATGTGCAATTTTACTTGTAGCTTCAAGCAAAACATTTCTATAACCCTAGACAGATGCAG[CT]GACTGTAAGTTTGTCCTCTAGCACCAAGTTCTTCTTTATAAAAACGTTCCCATTTGAGA   ctg16537   20
107073 I       A     CGCACAACACCTACCTCACAGGTATGAATTTTCTAGTTCTTTGTTAT
107073 P   C   A     CGCGCCGAGGCTTTAGCCAGTCTCACCAY
107073 P   G   A     ATGACGTGGCAGACGTTTAGCCAGTCTCACCY
107073 T   C   A     AATTTGGTGAGACTGGCTAAAGTAACAAAGAACTAGAAAATTCATACCTGTGAGGTAGGTGTTGTGCGAG
107073 T   G   A     AATTTGGTGAGACTGGCTAAACTAACAAAGAACTAGAAAATTCATACCTGTGAGGTAGGTGTTGTGCGAG

107073 IS  [CG]      TTTCATTAATTCCTCCGCACAACACCTACCTCACAGGTATGAATTTTCTAGTTCTTTGTTA[CG]TTTAGCCAGTCTCACCAAATTTCACCAACCTCTACTTTCTGTTGTTCGGAAGCTGAAGTG   ctg16586   20
107074 I       S     CAGCAAATGGAAGAAAACACACTTCAGCTTCCGAACAT
107074 P   T   S     CGCGCCGAGGACAGAAAGTACAGGTTGGTY
107074 P   C   S     ATGACGTGGCAGACGCAGAAAGTAGAGGTTGGY
107074 T   T   S     TTTCACCAACCTCTACTTTCTGTTGTTCGGAAGCTGAAGTGTGTTTCTCCAATTTCCTGCG
107074 T   C   S     TTTCACCAACCTCTACTTTCTGCTGTTCGGAAGCTGAAGTGTGTTTCTCCAATTTCCTGCG

107074 IS  [TC]      TTTTCTAGTTCTTTGTTACTTTAGCCAGTCTCACCAAATTTCACCAACCTCTACTTTCTGTTC[TC]TGTTCGGAAGCTGAAGTGTGTTTCTTCCATTTCCTGCGAAGTGCCTCTGAGAACTCTGG   ctg53   14
107075 I       S     GCTGGAAATATTTGGAAAATCTATCTCTCAAATTTGGGGGCCTGAAAA
107075 P   A   S     CGCGCCGAGGTTGGCTGGCTTTGTTAGY
107075 P   G   S     ATGACGTGGCAGACCTGGCTGGCTTTGTTAGY
107075 T   A   S     CAAGCTAACAAAGCCAGCCAATTTCAGGCCCCCAAATTTGAAGATAGATTTCCAAATATTTCCAGCTG
107075 T   G   S     CAAGCTAACAAAGCCAGCCAGTTCAGGCCCCCAAATTTGAAGATAGATTTCCAAATATTTCCAGCTG

107075 IS  [AG]      TTCTGTGGGACCATGTAACACACAAAATTGTTAACTCTTCAAGCTAACAAAGCCAGCCA[AG]TTTCAGGCCCCCAAATTTGAAGATAGATTTTCCAAATATTTCCAGCTGTTAGAAACTATT   ctg53   14
107076 I       S     CTTCCTGACAACTCTTTGAAGTATAAACATAATCAGGAAAAAAAAAGAGAGTAGCACAA
107076 P   A   S     CGCGCCGAGGTAGACTCTAGGTACCAAGCY
107076 P   G   S     ATGACGTGGCAGACCAGACTCTAGGTACCAAGCY
107076 T   A   S     GCCAGCTTGGTACCTAGAGTCTATGTGCTACTCTCTTTTTTTCCTGATTATGTTTATACTTCAAAGAGTTGTCAGGAAGAC
107076 T   G   S     GCCAGCTTGGTACCTAGAGTCTGTGTGCTACTCTCTTTTTTTCCTGATTATGTTTATACTTCAAAGAGTTGTCAGGAAGAC

107076 IS  [AG]      ATTTCCAGCTGTTAGAAACTATTGAGTTCACTACCAAAGCCAGCTTGGTACCTAGAGTCT[AG]TGTGCTACTCTCTTTTTTTTCCTGATTATGTTTATACTTCAAAGAGTTGTCAGCAAGAGT   ctg53   14
107077 I       A     ACCTTAAAGTGTGTGCAGAAAAATATATAAAGCATGTAAAAGTTAGTCAAAAGATT
107077 P   G   A     ATGACGTGGCAGACGAATGATGCTGTGGTAAAATAGY
107077 P   A   A     CGCGCCGAGGAAATGATGCTGTGGTAAAATAGY
107077 T   G   A     TTATCTATTTTACCACAGCATCATTCATCTCTTTGACTAACTTTACATGCTTTATATTTTTCTCACACACTTTAAGGTGA
107077 T   A   A     TTATCTATTTTACCACAGCATCATTTATCTTTTGACTAACTTTACATGCTTTATATTTTTCTCACACACTTTAAGGTGA

107077 IS  [GA]      GAATGTTCACCTTAAAGTGTGTGAGAAAAATATAAAGCATGTAAAAGTTAGTCAAAAGAT[GA]AATGATGCTGTGGTAAAATAGATAAGCAAAGATCAAGTTCTGTTTTATATGGAGCTTTTC   ctg21fin2   21
107078 I       A     AGTCGATTTCCATGCTTCTTAAAATGCTTCCTTCTTTTTCTTTTAGCTACT
107079 P   G   A     ATGACGTGGCAGACGTTTCAGCTCATTATTGACTACY
107079 P   A   A     CGCGCCGAGGATTTCAGCTCATTATTGACTACTY
107079 T   G   A     GCTAAGTAGTCAATAATGAGCTGAAACAGTAGCTAAAAGAAAAAGAAGGAAGCATTTTAAGAAGCATGGAAATCCACTAG
107079 T   A   A     GCTAAGTAGTCAATAATGAGCTGAAATAGTAGCTAAAAGAAAAAGAAGGAAGCATTTTAAGAAGCATGGAAATCCACTAG

107079 IS  [GA]      CTAATACCTAGTGGATTTCCATGCTTCTTAAAATGCTTCCTTCTTTTTCTTTTAGCTACT[GA]TTTCAGCTCATTATTGACTACTTAGCTGAGTTCAATTCCACACCAGCTGTCTTTACAATG   ctg21fin2   21
107081 I       A     CCCACTCCAAAGGCATAATGTCATAAATAGAAAGAAACTACTGACACACT
107081 P   G   A     ATGACGTGGCAGACGTTTTAAAATAACCTACCAACATTGY
107081 P   A   A     CGCGCCGAGGATTTTAAAATAACCTACCAACATTGY
107081 T   G   A     TCTGCAATGTTGCTAGGTTATTTTAAAACGTGTGTCAGTAGTTTCTTTCTATTTATGACATTATGCCTTTGGAGTGGGTA
107081 T   A   A     TCTGCAATGTTGCTAGGTTATTTTAAAATGTGTGTCAGTAGTTTCTTTCTATTTATGACATTATGCCTTTGGAGTGGGTA

107081 IS  [GA]      GATACGATCTACCCACTCCAAAGGCATAATGTCATAAATAGAAAGAAACTACTGACACAC[GA]TTTTAAAATAACCTACCAACATTGCAGATTCCTTATAAAGGTAGAACCATGCTAGCCAAA   ctg21fin2   21
107086 I       A     GGAGAGACACAGGCAGGGAAAAAACCGTGACT
107086 P   A   A     CGCGCCGAGGAGGATCCCACTGGGTY
107086 P   G   A     ATGACGTGGCAGACGGGATCCCACTGGGY
107086 T   A   A     GTTTACCCAGTGGGATCCTGTCACGGTTTTTTCCCTGCCTGTGTCTCTCCCC
107086 T   G   A     GTTTACCCAGTGGGATCCCTGTCACGGTTTTTTCCCTGCCTGTGTCTCTCCCC

107086 IS  [AG]      AAGACTTCATGGCCCGAAATCAGGGGTCGGGGAGAGACACAGGCAGGGAAAAAACCGTGAC[AG]GGATCCCACTGGGTAAACCCCATGGTCGTGGTCTGCTCACCAGGCTGCTATCATATCTG   ctg21fin2   21
107090 I       A     GGCAGATGGGCACCCTCTGGGTAGGCA
107090 P   C   A     ATGACGTGGCAGACCGAGAGCAGGCAGCY
107090 P   T   A     CGCGCCGAGGTCAGAGCAGGCAGCY
107090 T   C   A     CCCGGCTGCCTGCTCTCGGCCTACCCAGAGGGTCCCATCTGCCCC
107090 T   T   A     CCCGGCTGCCTGCTCTCAGCCTACCCAGAGGGTCCCATCTGCCCC

107090 IS  [CT]      AGATGCCAACCTCCCGCAGGTGGGCCTGGATAGGGGCAGATGGGACCCTCTGGGTAGGC[CT]GAGACAGGCAGCCGGGGAGTGGGGAAGCAGGCACAGGAGCGTGGCGTTAGTTCTCTCT   ctg21fin2   21
107091 I       S     GTGGCAGGGAGGAGGAGTGGCCCCT
107091 P   C   S     ATGACGTGGCAGACGGCCGCCACAY
107091 P   G   S     CGCGCCGAGGCGCCCGCCACAY
107091 T   C   S     TGAGTGTGGCGGGCCGGGGCCACTCCTTCCGTCCCACCC
107091 T   G   S     TGATGTGTGGCGGGCCGGGGCCACTCCTTCCGTCCCACCC

107091 IS  [CG]      CTTCGTCCTCTCCTGCAGTTACGATGGCCTGGACTGCCAGCCCGGTGAGTGTGGCGGGC[CG]GGGGCCACTCCTTCCGTCCCACCCCACAGAGCGTGGCCGCACCCCTGGGGTCCCTCTGGC   ctg21fin2   21
107093 I       A     GGTGAGACGGGGGTGTTGGGGTCGT
107093 P   G   A     ATGACGTGGCAGACGGGCCAGGGATCATTY
107093 P   C   A     CGCGCCGAGCCGCCAGGGATCATY
107093 T   G   A     GGGCAATGATCCCTGGCCCGCAACCCCAACCCCGTCTCACCTG
107093 T   C   A     GGGCAATGATCCCTGGCCCGCAACCCCAACCCCGTCTCACCTG

107093 IS  [GC]      GGCTCCCCTGTACCTCCCGCTGCCCCAGGCCCTGCAGGTGAGACGCGGGGTGTTGGGG[GC]GCCCAGGGATCATTGCCCCAGGTAGCGTGGCAGGTGACACCCGGCTGTCTCTTCCAGGGA   ctg21fin2   21
107094 I       A     GTCCCCAAGTGGTGGGGTGGGGT
107094 P   A   A     CGCGCCGAGGATGTGGACAGCCAGGY
107094 P   G   A     ATGACGTGGCAGACGTGTGGACAGCCAGGY
107094 T   A   A     TCTGCCTGGCTGTCCACATCCCCACCCCACCACTTTGGGGACTC
107094 T   G   A     TCTGCCTGGCTGTCCACACCCCACCCCACCACTTTGGGGACTC

107094 IS  [AG]      GGGACCCCCAGGTGGCCTTCCGCCAAGTCAGCTGTGAGTCCCCAAAGTGGTGGGGTGGGG[AG]TGTGGACAGCCAGGCAGACCCCACAGGTCCCACAGAGCCCACCCAAGACAAGGGCAGGGC   ctg21fin2   21
107097 I       S     GCATGAAAGCCCCAGCCAGCCTCACT
107097 P   G   S     ATGACGTGGCAGACCTGTCCGGCTGGGY
107097 P   T   S     CGCGCCGAGGATGTGCGGCTGGGY
107097 T   G   S     ACCTCCCAGCCGCACAGGTGAGGCTGGCTGGGGCTTTCATGCTC
107097 T   T   S     ACCTCCCAGCCGCACATGTGAGGCTGGCTGGGGCTTTCATGCTC
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FIGURE 129G

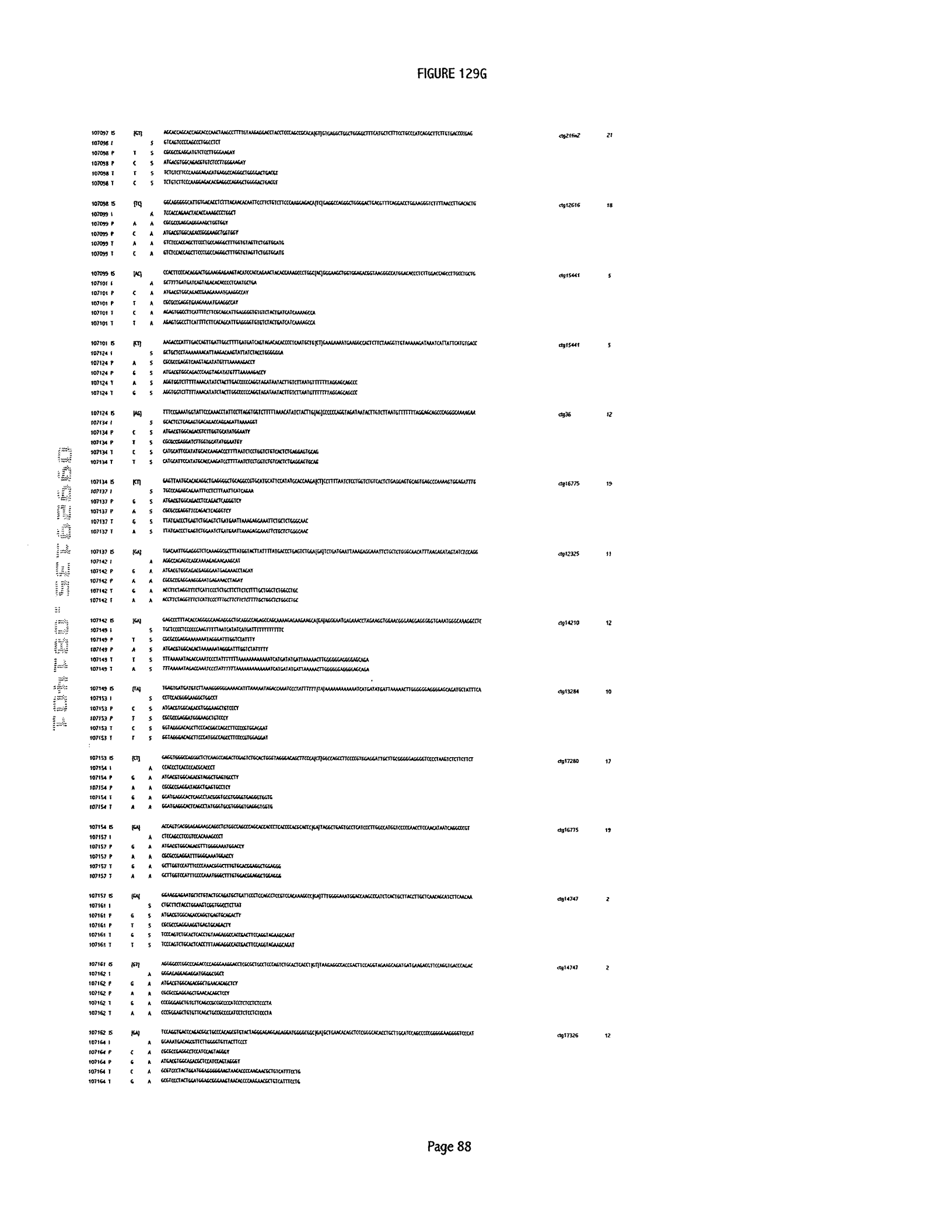
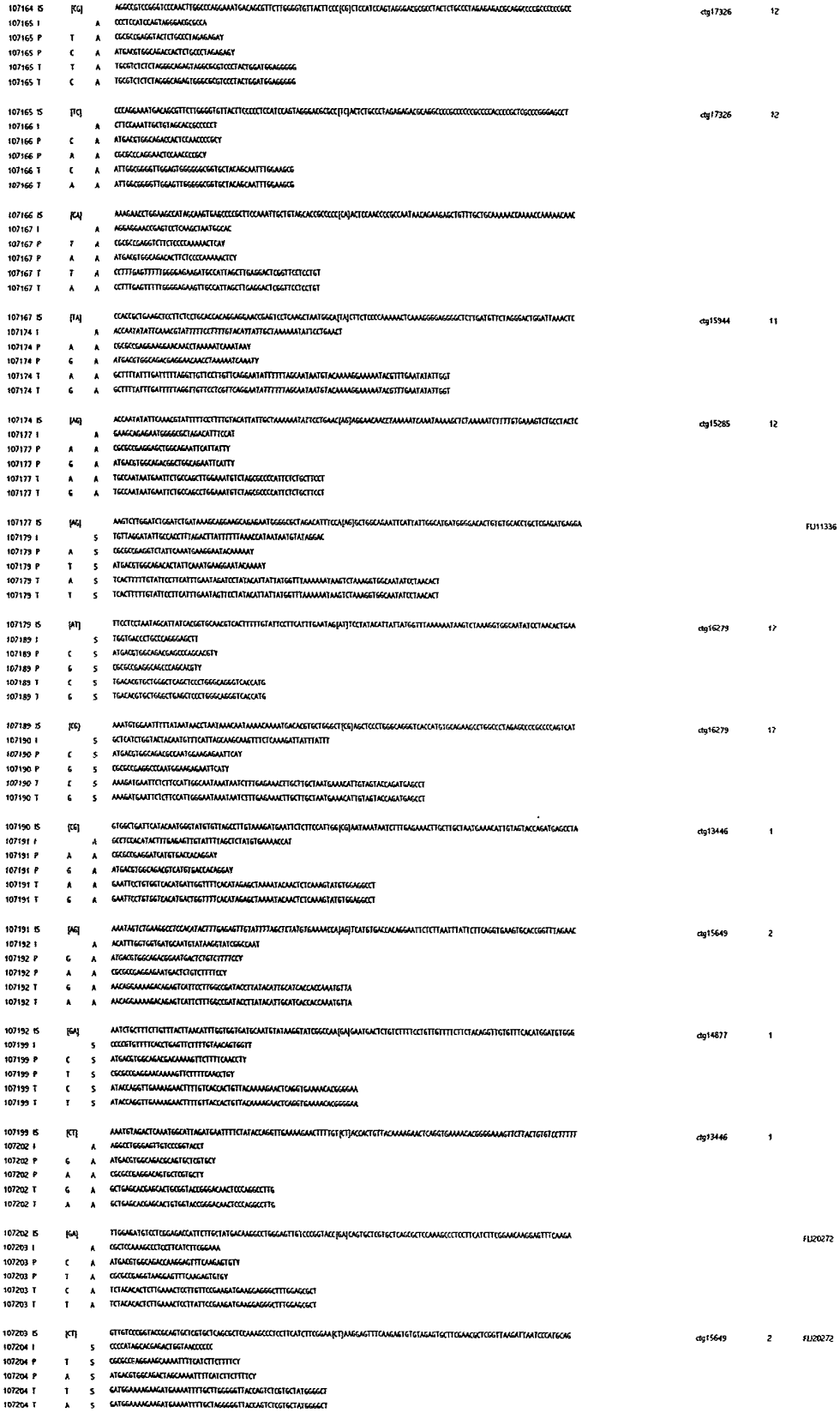
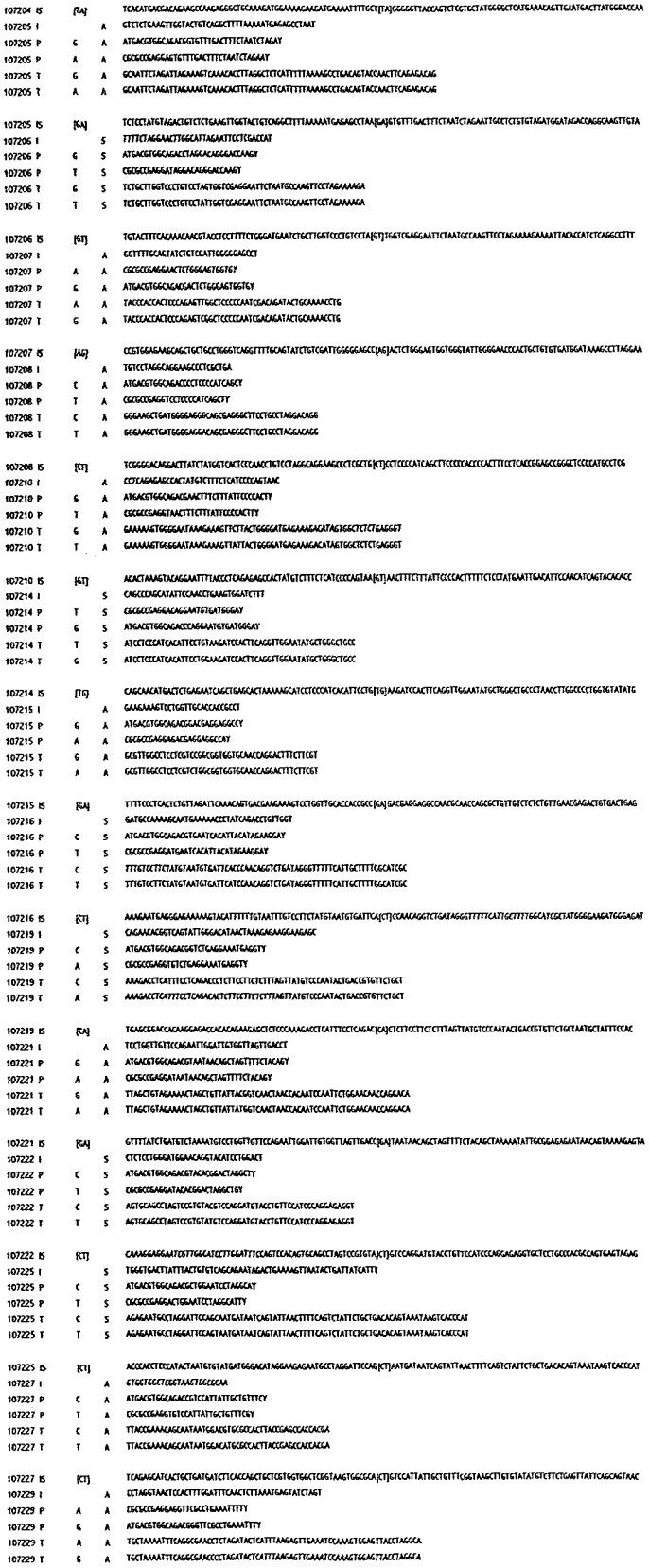

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107098 I S GTCAGTCCCCAGCCCTGGCCTCT
107098 P T S CGGGCCCAAGCATGTCTCCTTGGGAAGAY
107098 P C S ATGACGTGGCAGACGTGTCTCCTTGGGAAGAY
107098 T T S TCTGTCTTCCCAAGGAGACATGAGGCCAGGGCTGGGGACTGACGT
107098 T C S TCTGTCTTCCCAAGGAGACACGAGGCCAGGGCTGGGGACTGACGT
107098 IS [TC] GGCAGGGGGCATTGTGACACCTCTTACAACACAATTCCTTCTGTCTTCCCAAGGAGACA[TC]GAGGCCAGGGCTGGGGACTGACGTTTCAGGACCTGAAGGGTCTTTTAACCTTGACACTG ctg12616 18
107099 I A TCCACAGAACTACACCAAAGCCCTGGCT
107099 P A A CGCGCCGAAGCAGGCAAGCTGGTGGY
107099 P C A ATGACGTGGCAGACCGGGAAGCTGGTGGY
107099 T A A GTCTCCCACCAGCTTCCCTGCCAGGGCTTTGGTGTAGTTCTGGTGGATG
107099 T C A GTCTCCCACCAGCTTCCCGGCCAGGGCTTTGGTGTAGTTCTGGTGGATG
107099 IS [AC] CCACTTTCCCACAGGACTGGAAGGAGAAGTACATCCACCAGAACTACACCAAAGCCCTGGC[AC]GGGAAGCTGGTGGAGAGCGGTAAGGGCCATGGACACCCTCTTGGACCAGCCTTGCCTGCTG ctg15441 5
107101 I A GCTTTTGATGATCAGTAGACACACCCCTCAATGCTGA
107101 P C A ATGACGTGGCAGACCGAAGAAAATGAAGGCCAY
107101 P T A CGCGCCGAGGTGAAGAAAATGAAGGCCAY
107101 T C A AGAGTGGCCTTCATTTTCTTCACAGCATTGAGGGGTGTGTCTACTGATCATCAAAAGCCA
107101 T T A AGAGTGGCCTTCATTTTCTTCACAGCATTGAGGGGTGTGTCTACTGATCATCAAAAGCCA
107101 IS [CT] AAGACCCATTTGACCAGTTGATTGGCTTTTGATGATCAGTAGACACACCCCTCAATGCTG[CT]GAAGAAAATGAAGGCCACTCTTCTAAGGTTGTAAAAAGATAAATCATTATTCATGTGACC ctg15441 5
107124 I S GCTGCTCCTAAAAAAACATTAAGACAAGTATTATCTACCTGGGGGGGA
107124 P A S CGCGCCGAGGTCAAGTAGATATGTTTAAAAAGACCY
107124 P G S ATGACGTGGCAGACCCAAGTAGATATGTTTAAAAAGACCY
107124 T A S AGGTGGTCTTTTTAAACATATCTACTTGACCCCCAGGTAGATAATACTTGTCTTAATGTTTTTTAGGAGCAGCCC
107124 T G S AGGTGGTCTTTTTAAACATATCTACTTGGCCCCCAGGTAGATAATACTTGTCTTAATGTTTTTTAGGAGCAGCCC
107124 IS [AG] TTTCCGAAATGGTATTCCCAAACCTATTCCTTAGGTGGTCTTTTTAAACATATCTACTTG[AG]CCCCCCAGGTAGATAATACTTGTCTTAATGTTTTTTAGGAGCAGCCCGAGGGCAAAAGAA ctg36 12
107134 I S GCACTCCTCAGAGTGACAGACACAGCAGATTAAAAGGT
107134 P C S ATGACGTGGCAGACGTCTTGGTGCATATGGAATY
107134 P T S CGCGCCGAGGATCTTGGTGCATATGGAATGY
107134 T C S CATGCATTCCATATGCAACAAGATCCTTTTAATCTCCTGGTCTGTCACTCTGAGGAGTGCAG
107134 T T S CATGCATTCCATATGCAACAAGATCCTTTTAATCTCCTGGTCTGTCACTCTGAGGAGTGCAG
107134 IS [CT] GAGTTAATGCACACAGGCTGAGGGGCTGCAGGCCGTGCATGCATTCCATATGCACACAAGA[CT]CCTTTTAATCTCCTGGTCTGTCACTCTGAGGAGTGCAGTGAGCCAAAAGTGGAGATTTG ctg16775 19
107137 I S TGCCCAGAGCAGAATTTCCTCTTTAATTCATCAGAA
107137 P G S ATGACGTGGCAGACCTCCAGACTCAGGGTCY
107137 P A S CGCGCCGAGGTTCCAGACTCAGGGTCY
107137 T G S TTATGACCCTGAGTCTGGAGTCTGATGAATTAAAGAGGAAATTCTGCTCTGGGCAAC
107137 T A S TTATGACCCTGAGTCTGGAATCTGATGAATTAAAGAGGAAATTCTGCTCTGGGCAAC
107137 IS [GA] TGACAATTGGAGGGTCTCAAAGGCGCTTTATGGTACTTATTTTATGACCCTGAGTCTGGA[GA]GTCTGATGAATTAAAGAGGAAATTCTGCTCTGGGCAACATTTAAGAGATAGTATCTCCAGG ctg12325 11
107142 I A AGGCCAGAGCCAGCAAAAGAAGAAGAAGCAT
107142 P G A ATGACGTGGCAGACGAGGCAATGAGAAACCTAGAY
107142 P A A CGCGCCGAGCAAGGGAATGAGAAACCTAGAY
107142 T G A ACCTTCTAGGTTTCTCATTCCCTCTGCTTCTTCTCTTTTGCTGGCTCTGGCCTGC
107142 T A A ACCTTCTAGGTTTCTCATTCCCTTGCTTCTTCTCTTTTGCTGGCTCTGGCCTGC
107142 IS [GA] GAGCCCTTTACACCAGGGCCAAGAGGCCTGCAGGCCAGAGCCAGCAAAAGAGAAGAAGCA[GA]AGGGAATGAGAAACCTAGAAGGTGGAACGGGAAGAAGGGGTGAAATGGGCAAAGGCCTC ctg14210 12
107149 I S TGCTCCCCTCCCCCAAGTTTTAATCATATCATGATTTTTTTTTTTC
107149 P T S CGCGCCGAGGAAAAAAATAGGGATTTGGTCTATTTY
107149 P A S ATGACGTGGCAGACTAAAAAATAGGGATTTGGTCTATTTTY
107149 T T S TTTAAAAATAGACCAAATCCCTATTTTTTTAAAAAAAAAAAATCATGATATGATTAAAAACTTGGGGGGAGGGGAGCAGA
107149 T A S TTTAAAAATAGACCAAATCCCTATTTTTTAAAAAAAAAAAATCATGATATGATTAAAAACTTGGGGGGAGGGGAGCAGA
107149 IS [TA] TGAGTGATGATGTCTTAAAGGGGGGAAAACATTTAAAAATAGACCAAATCCCTATTTTTT[TA]AAAAAAAAAAATCATGATATGATTAAAAACTTGGGGGGAGGGGAGCAGATGCTATTTCA ctg13284 10
107153 I S CCTCCACAGGGGAAGGCTGGCCT
107153 P C S ATGACGTGGCAGACCTGGGAAGCTGTCCCY
107153 P T S CGCGCCGAGGATGGGAAGCTGTCCCY
107153 T C S GGTAGGGACAGCTTCCCACGGCCAGCCTTCCCCTGGAGGAT
107153 T T S GGTAGGGACAGCTTCCCATGGCCAGCCTTCCCCGTGGAGGAT
107153 IS [CT] GAGGTGGGCCAGGGCTCTCAAGCCAGACTCGAGTCTGCACTGGGTAGGGACAGCTTCCCA[CT]GGCCAGCCTTCCCCGTGGAGGATTGCTTGCGGGGGAGGGGGTCCCCTAAGTCTCTTCTCT ctg17280 17
107154 I A CCACCCTCACCCCACGCACCCT
107154 P G A ATGACGTGGCAGACGTAGGCTGAGTGCCTY
107154 P A A CGCGCCGAGGATAGGCTGAGTGCCTCY
107154 T G A GGATGAGGCACTCAGCCTACGGGTGCGTGGGGTGAGGGTGGTG
107154 T A A GGATGAGGCACTCAGCCTATGGGTGCGTGGGGTGAGGGTGGTG
107154 IS [GA] ACCAGTGACGGAGAGAAGCAGCCTGTGGCCAGCCAGCACACCCTCACCCCACGCACCC[GA]TAGGCTGAGTGCCTCATCCCTTGGCCATGGTCCCCCAACCTCCAACATAATCAGGCCCGT ctg16775 19
107157 I A CTCCAGCCTCCGTCCACAAAGCCCT
107157 P G A ATGACGTGGCAGACGTTTGGGGAAATGGACCY
107157 P A A CGCGCCGAGGATTTGGGGAAATGGACCY
107157 T G A GCTTGGTCCATTTCCCCAAACGGGCTTGTGCACGGAGGCTGGAGGG
107157 T A A GCTTGGTCCATTTCCCCAAATGGGCTTGTGGACGGAGGCTGGAGGG
107157 IS [GA] GGAAGGAGAATGCTCTGTACTGCAGATGCTGATTCCCTCCAGCCTCCGTCCACAAAGCCC[GA]TTTGGGGAAATGGACCAGCCCATCTCACTGCTTACCTTGCTCAACAGCATCTTCAACAA ctg14747 2
107161 I S CTGCTTCTACCTGGAAGTCGGGTGGGCTCTTAT
107161 P G S ATGACGTGGCAGACCAGGTGAGTGCAGACTY
107161 P T S CGCGCCGAGGAAGGTGAGTGCAGACTY
107161 T G S TCCCAGTCTGCACTCACCTGTAAGAGGCCACCGACTTCCAGGTAGAAGCAGAT
107161 T T S TCCCAGTCTGCACTCACCTTTAAGAGGCCACCGACTTCCAGGTAGAAGCAGAT
107161 IS [GT] AGGGGCCCGGCCCAGACCCCAGGGAAGGACCTCGCGCTGCCTCCCAGTCTGCACTCACCT[GT]TAAGAGGCCACCGACTCCAGGTAGAAGCAGATGATGAAGAGCTTCCAGGTGACCCAGAC ctg14747 2
107162 I A GGGAGAGGAGAAGGATGGGGCGGCT
107162 P G A ATGACGTGGCAGACGGGCTGAACACAGCTCY
107162 P A A CGCGCCGAGGAGCTGAACACAGCTCCY
107162 T G A CCCGGGAGCTGTGTTCAGCCGCCGCCCCATCCTCCTCCTCCCTA
107162 T A A CCCGGGAGCTGTGTTCAGCTGCCGCCCATCCTCCTCCTCCCTA
107162 IS [GA] TCCAGGTGACCCAGACGGCTGCCCACAGGGTGTACTAGGGAGAGGAGAGGAGATGGGGCGGC[GA]GCTGAACACAGCTCCCGGGCACACCTGCTTGCATCCAGCCCCCGGGGGAAGGGGTCCCAT ctg17326 12
107164 I A GGAAATGACAGCGTTCTTGGGGTGTTACTTCCCT
107164 P C A CGCGCCGAGGCCTCCATCAGTAGGGY
107164 P G A ATGACGTGGCAGACGCTCCATCCAGTAGGGY
107164 T C A GCGTCCCTACTGGATGGAGGGGGAAGTAACACCCCAAGAACGCTGTCATTTCCTG
107164 T G A GCGTCCCTACTGGATGGAGCGGGAAGTAACACCCCAAGAACGCTGTCATTTCCTG

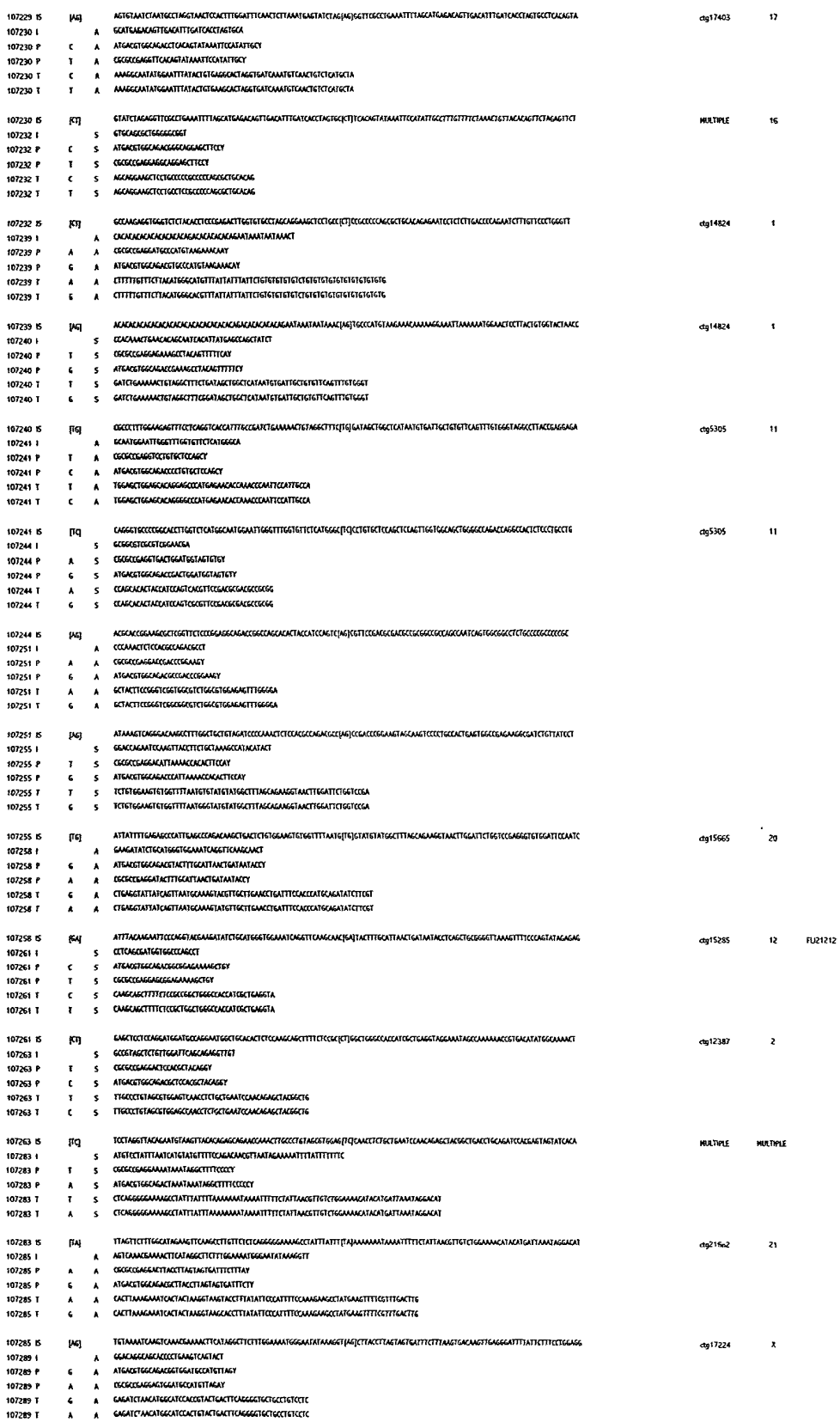
FIGURE 129G



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FIGURE 129G


107204 IS [TA] TCACATGACGACAGAAGCCAAGAGGGCTGCAAAGATGGAAAAGAAGAATGAAAATTTTGCT[TA]GGGGGTTACCAGTCTCGTGCTATGGGGCTCATGAAACAGTTGAATGACTTATGGGACCAA ctg12567 16 CDCSL
107205 I A GTCTCTGAAGTTGGTACTGTCAGGCTTTTAAAATGAAGCCTAAT
107205 P G A ATGACGTGGCAGAAGGTGTTTGACTTTCTAATCTAGAY
107205 P A A CGCGCCGAGGAGTGTTTGACTTTCTAATCTAGAY
107205 T G A GCAATTCTAGATTAGAAAGTCAAACACCTTAGGCTCTCATTTTTAAAAGCCTGACAGTACCAACTTCAGAGACAG
107205 T A A GCAATTCTAGATTAGAAAGTCAAACACTTAGGCTCTCATTTTTAAAAGCCTGACAGTACCAACTTCAGAGACAG
107205 IS [GA] TCTCCTATGTAGACTGTCTCTGAAGTTGGTACTGTCAGGCTTTTAAAAATCAGAGCCTAA[GA]GTGTTTGACTTTCTAATCTAGAATTGCCTCTGTGTAGATGGATAGACCAGGCAAGTTGTA ctg12567 16
107206 I S TTTTCTAGGAACTTGGCATTAGAATTCCTCGACCAT
107206 P G S ATGACGTGGCAGAACCTAGGACAGGGACCAAGY
107206 P T S CGCGCCGAGGATAGGACAGGGACCAAGY
107206 T G S TCTGCTTGGTCCCTGTCCTAGTGGTCGAGGAATTCTAATGCCAAGTTCCTAGAAAAGA
107206 T T S TCTGCTTGGTCCCTGTCTATTGGTCGAGGAATTCTAATGCCAAGTTCCTAGAAAAGA
107206 IS [GT] TGTACTTTCACAAACAACGTACCTCCTTTTCTGGGATGAATCTGCTTGGTCCCTGTCCTA[GT]TGGTCGAGGAATTCTAATGCCAAGTTCCTAGAAAAGAAAATTACACCATCTCAGGCCTTT ctg15966 12
107207 I A GGTTTTGCAGTATCTGTCGATTGGGGGAGGCT
107207 P A A CGCGCCGAGGAACTCTGGGAGTGGTGY
107207 P G A ATGACGTGGCAGAAGACTCTGGGAGTGGTGY
107207 T A A TACCCACCACTCCCAGAGTTGGCTCCCCCAATCGACAGATACTGCAAAACCTG
107207 T G A TACCCACCACTCCCAGAGTCGGCTCCCCCAATCGACAGATACTGCAAAACCTG
107207 IS [AG] CCGTGGAGAAGCAGCTGCTGCCTGGGTCAGGTTTTGCAGTATCTGTCGATTGGGGGAGCC[AG]ACTCTGGGAGTGGTGGGTATTGGGGAACCCACTGCTGTGTGATGGATAAAGCCTTAGGAA ctg15966 12
107208 I A TGTCCTAGGCAGGAAGCCCTCGCTGA
107208 P C A ATGACGTGGCAGAAGCCCTCCCATCAGCT
107208 P T A CGCGCCGAGGTCCTCCCCATCAGCTY
107208 T C A GGGAAGCTGATGGGGAGGGCAGCGAGGGCTTCCTGCCTAGGACAGG
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107208 IS [CT] TCGGGGCACAGGACTTATCTATGGTCACTCCCAACCTGTCCTAGGCAGGAAGCCCTCGCTG[CT]CCTCCCCATCAGCTTCCCCCACCCCACTTTCCTCACCGGAGCCGGGCTCCCCATGCCTCG ctg12691 2
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107214 IS [TG] CAGCAACATGACTCTGAGAATCAGCTGAGCACTAAAAAGCATCCTCCCATCACATTCCTG[TG]AAGATCCACTTCAGGTTGGAATATGCTGGCCTGCCCTAACCTTGGCCCCTGGTGTATATG ctg15064 7
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107216 P T S CGCGCCGAGGATGAATCACATTACATAGAAGGAY
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107219 P C S ATGACGTGGCAGACGGTCTGAGGAAATGAGGTY
107219 P A S CGCGCCGAGGTCTCTGAGGAAATGAGGTY
107219 T C S AAAGACCTCATTTCCTCAGACCCTCTTCCTTCTCTTTAGTTATGTCCCAATACTGACCGTGTTCTGCT
107219 T A S AAAGACCTCATTTCCTCAGACACTCTTCCTTCTCTTTAGTTATGTCCCAATACTGACCGTGTTCTGCT
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107221 I A TCCTGGTTGTTCCAGAATTGGATTGTGGTTAGTTGACCT
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107221 P A A CGCGCCGAGGATAATAACAGCTAGTTTCTACAGY
107221 T G A TTAGCTGTAGAAAACTAGCTGTTATTACGGTCAACTAACCACAATCCAATTCTGGAACAACCAGGACA
107221 T A A TTAGCTGTAGAAAACTAGCTGTTATTATGGTCAACTAACCACAATCCAATTCTGGAACAACCAGGACA
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107222 I S CTCTCCTGGGATGGAACAGTAGATCCTGGACT
107222 P C S ATGACGTGGCAGACGTACACGGACTAGGCTY
107222 P T S CGCGCCGAGGATACACGGACTAGGCTGT
107222 T C S AGTGCAGCCTAGTCCGTGTACGTCCAGGATGTACCTGTTCCATCCAGGACAGGT
107222 T T S AGTGCAGCCTAGTCCGTGTATGTCCAGGATGTACCTGTTCCATCCAGGACAGGT
107222 IS [CT] CAAAGGAGGAATGGTTGGCATCCTTGGATTTCCAGTCCACAGTGCAGCCTAGTCCGTGTAC[CT]GTCCAGGATGTACCTGTTCCATCCCAGGACAGGTGCTCCTGCCCACGCCAGTGACTAGAG ctg45 8 OPN3
107225 I S TGGGTGACTTATTTACTGTGTCAGCAGAATAGACTGAAAAGTTAATACTGATTATCATTT
107225 P C S ATGACGTGGCAGACGCTGGAATCCTAGGCAY
107225 P T S CGCGCCGAGGACTGGAATCCTAGGCATTY
107225 T C S AGAGAATGCCTAGGATTCCAGCAATGATAATCAGTATTAACTTTTCAGTCTATTCTGCTGACACAGTAAATAAGTCACCCAT
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107227 I A GTGGTGGCTCGGTAAGTGGCCAA
107227 P C A ATGACGTGGCAGACCGTCCATTATTGCTGTTTCY
107227 P T A CGCGCCGAGGTGTCCATTATTGCTGTTTCGY
107227 T C A TTACCGAAACAGCAATAATGGACGTGCGCCACTTACCGAGCCACCACGA
107227 T T A TTACCGAAACAGCAATAATGGACATGCGCCACTTACCGAGCCACCACGA
107227 IS [CT] TCAGAGGATCACTGCTGATGATCTCACCAGCTGCTCGTGGTGGCTCGGTAAGTGGCGCA[CT]GTCCATTATTGCTGTTTCGGGTAAGCTTGTGTATATGTCTTTCTGAGTTATTCAGCAGTAAC ctg45 8
107229 I A CCTAGGTAACTCCACTTTGGATTTCAACTCTTAAATGAGTATCTAGT
107229 P A A CGCGCCGAGGAGGTTCGCCTGAAATTTTY
107229 P G A ATGACGTGGCAGACGGGTTCGCCTGAAATTTY
107229 T A A TGCTAAAATTTCAGGCGAACCCTCTAGATACTCATTTAAGAGTTGAAATCCAAAGTGGAGTTACCTAGGCA
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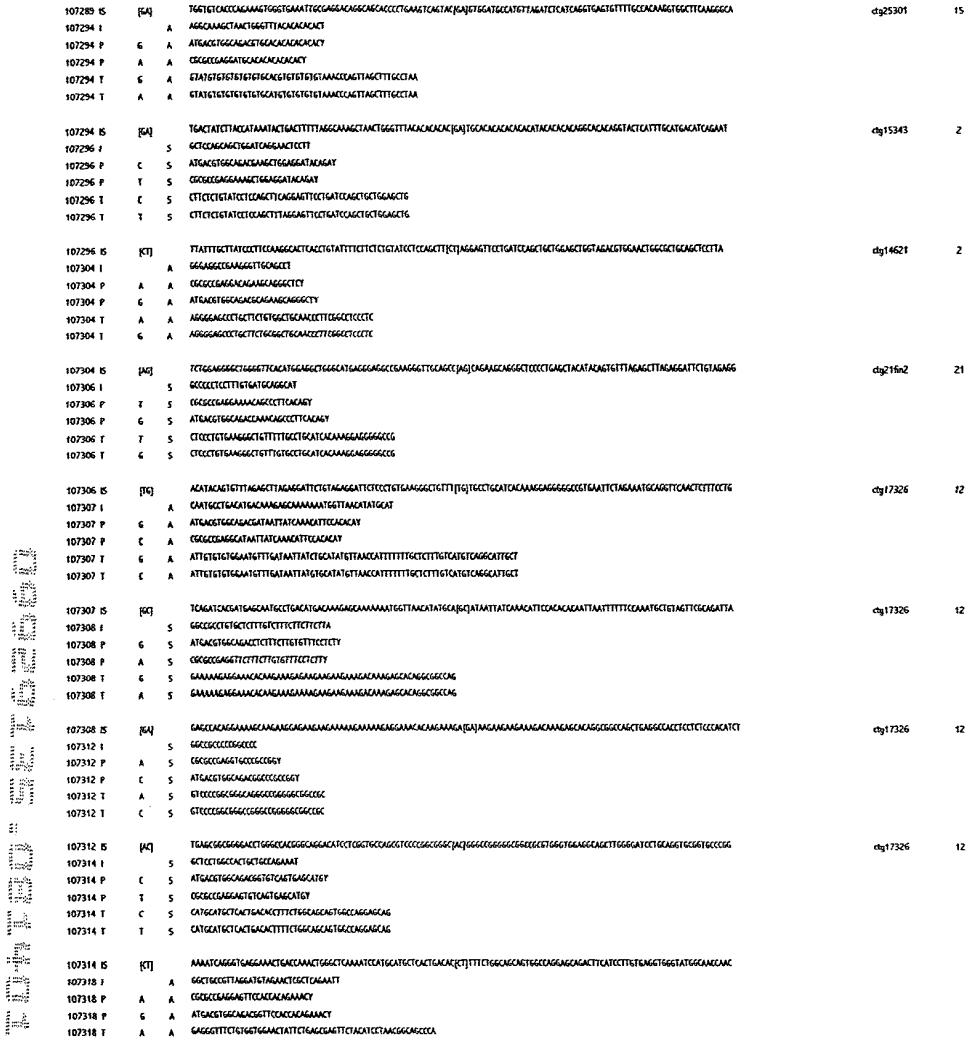


FIGURE 129G

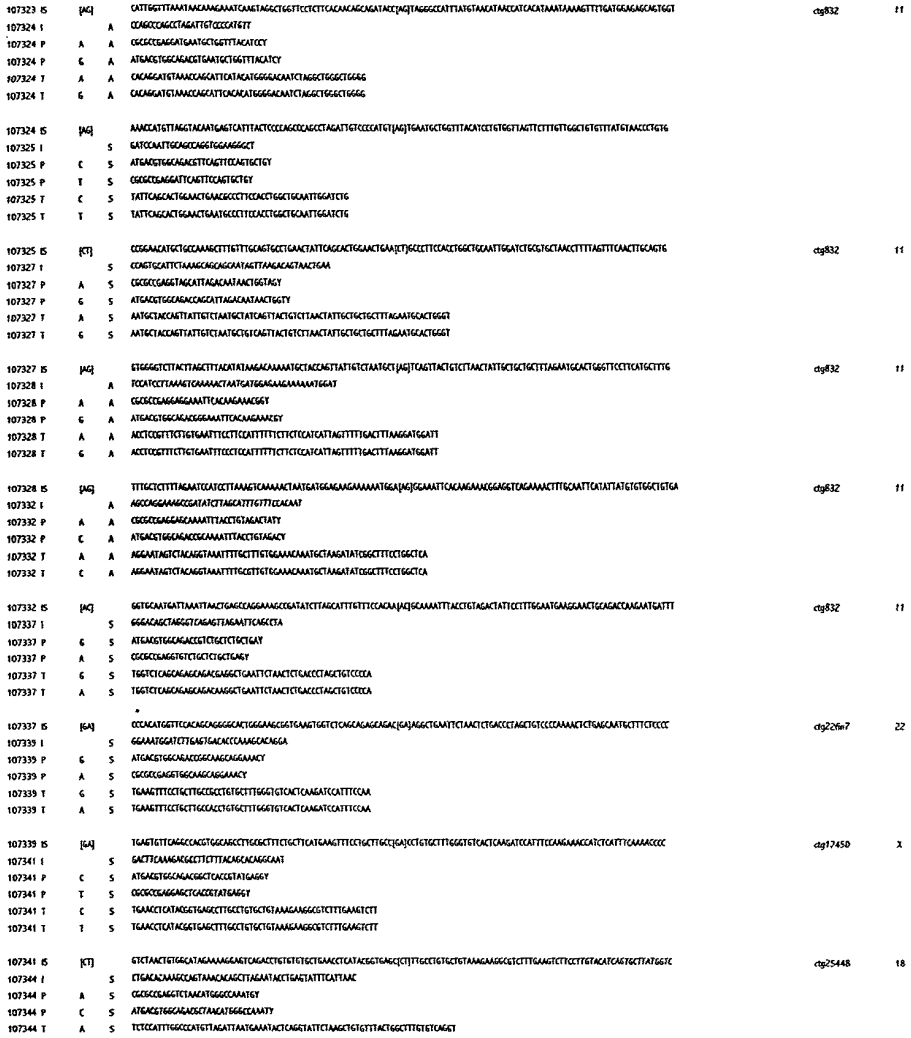


FIGURE 129G

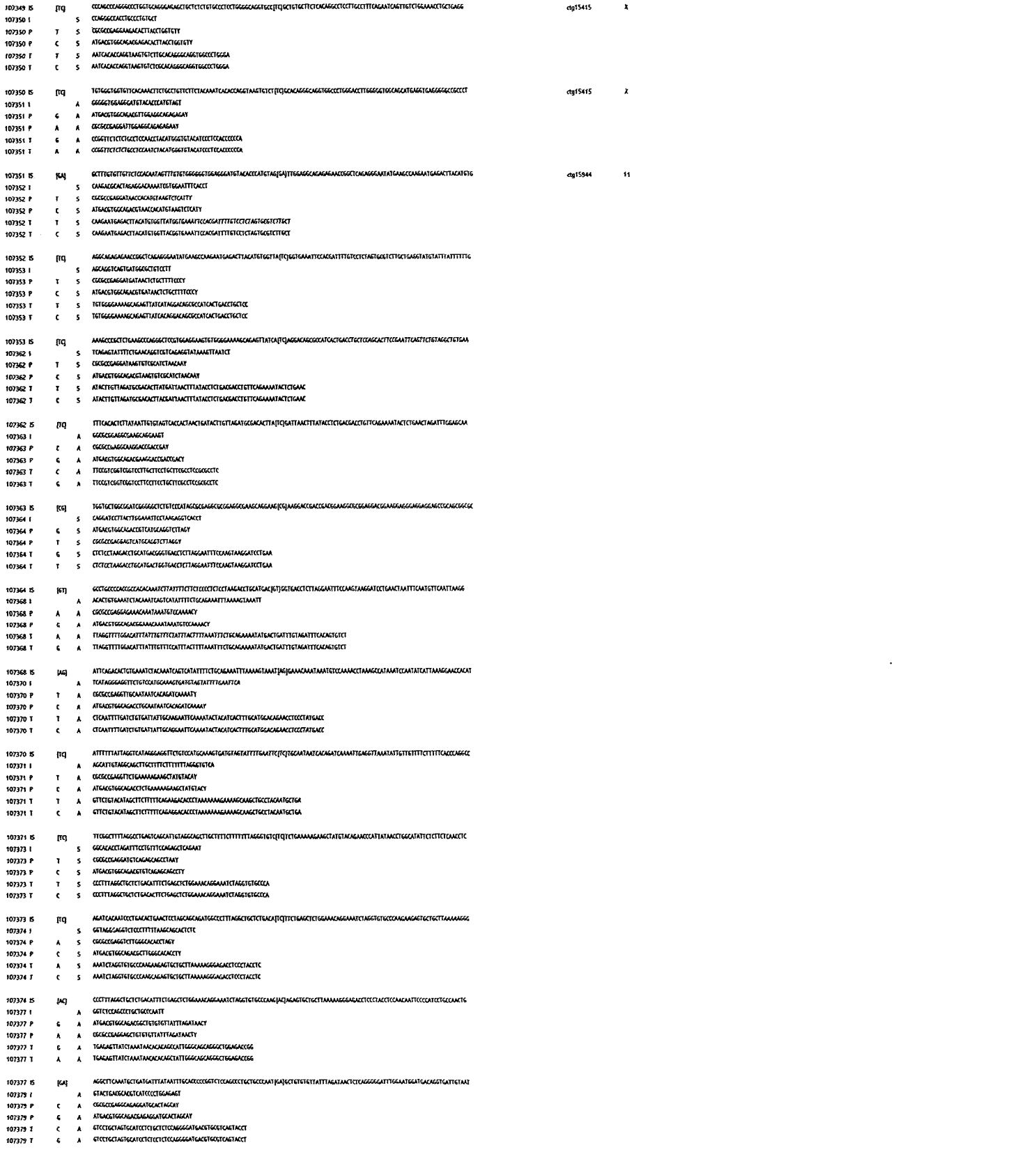


FIGURE 129G

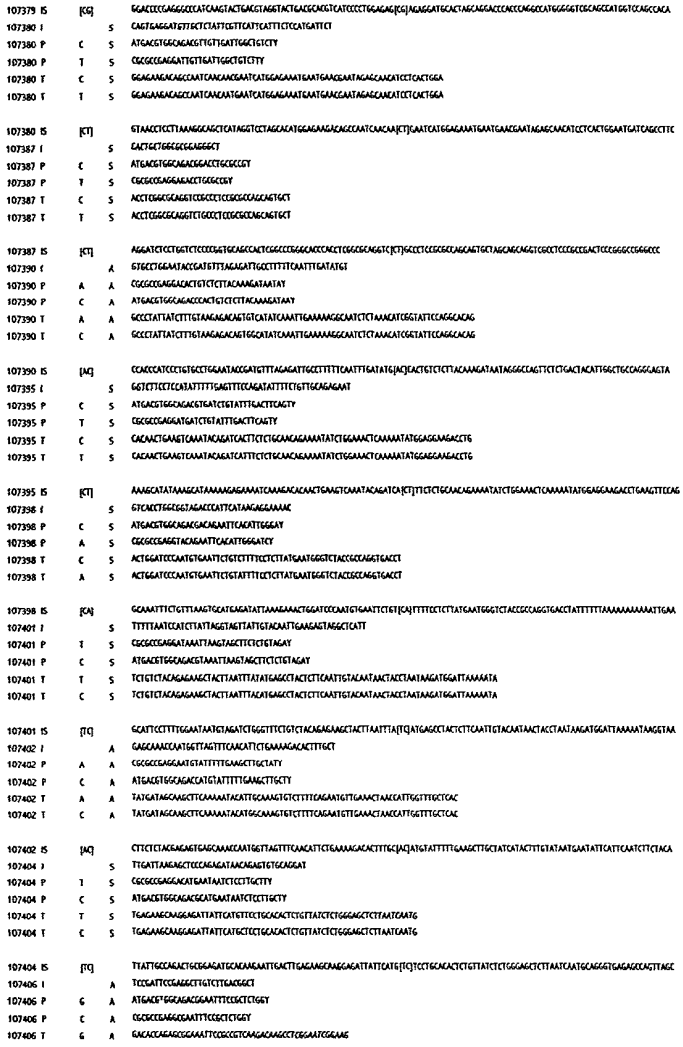


FIGURE 129G

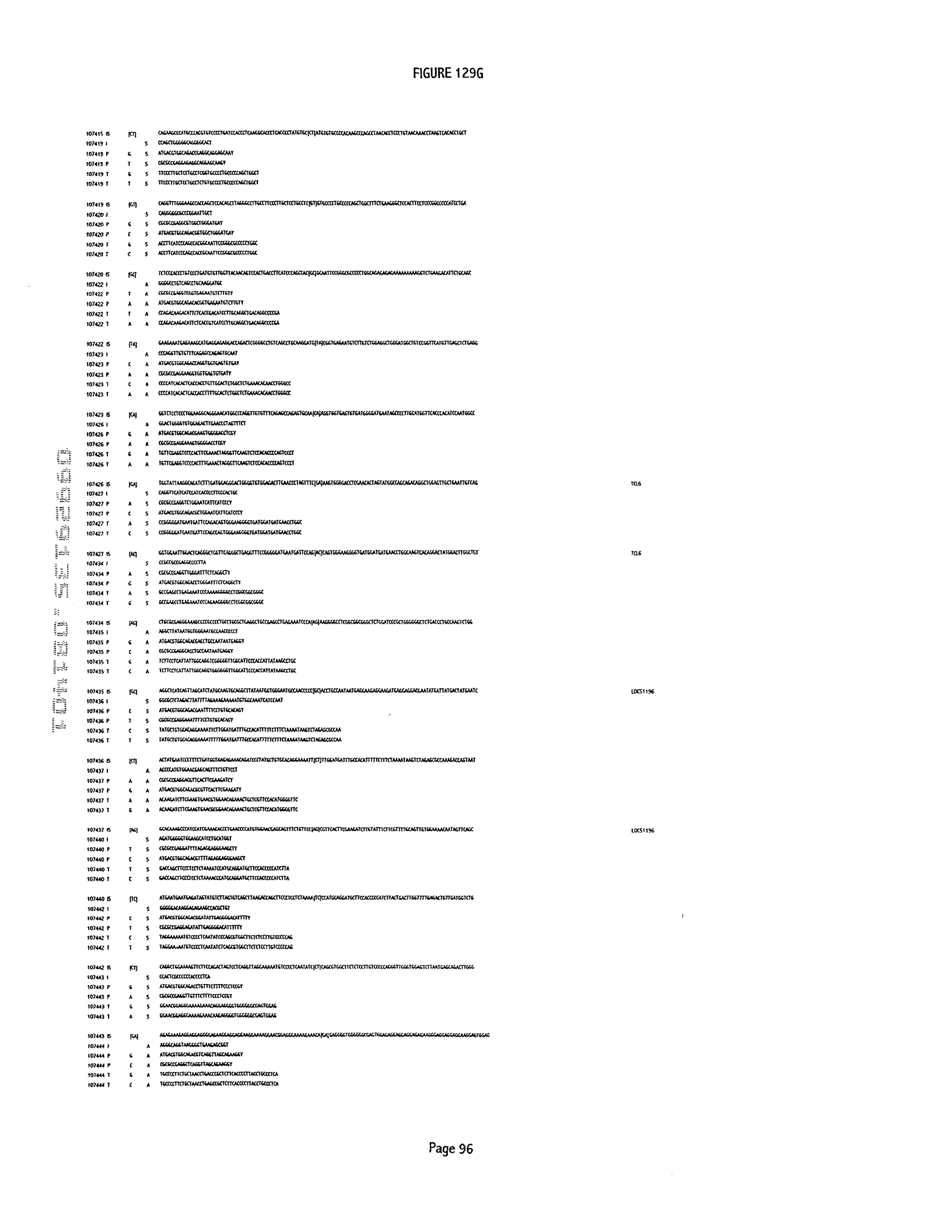
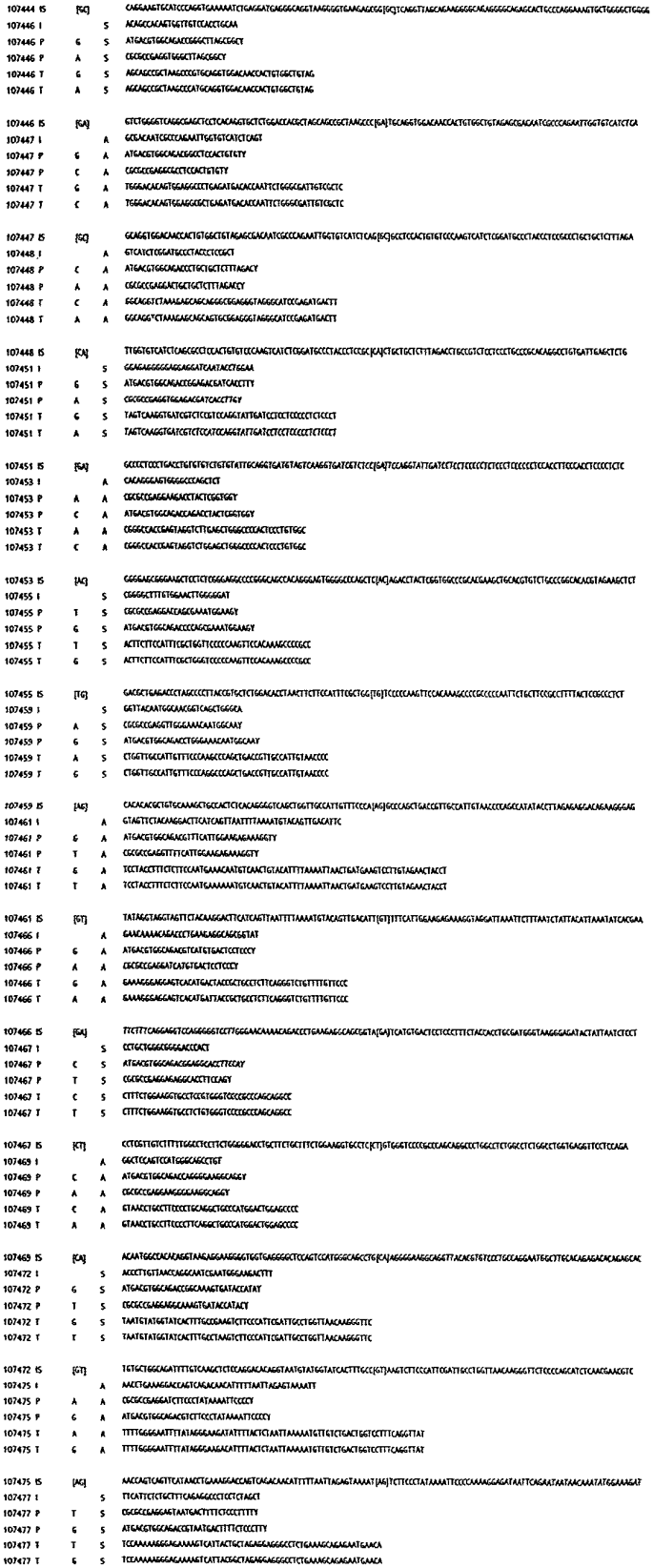


FIGURE 129G



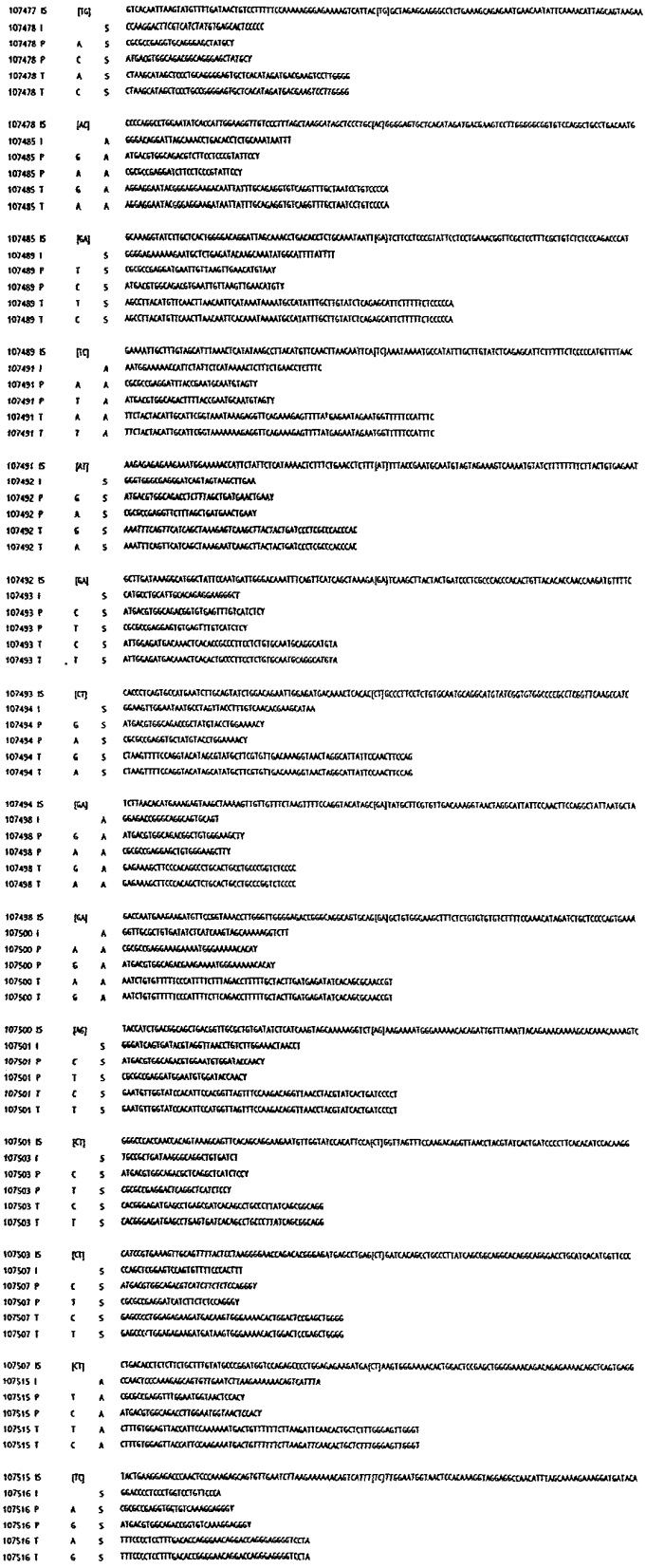
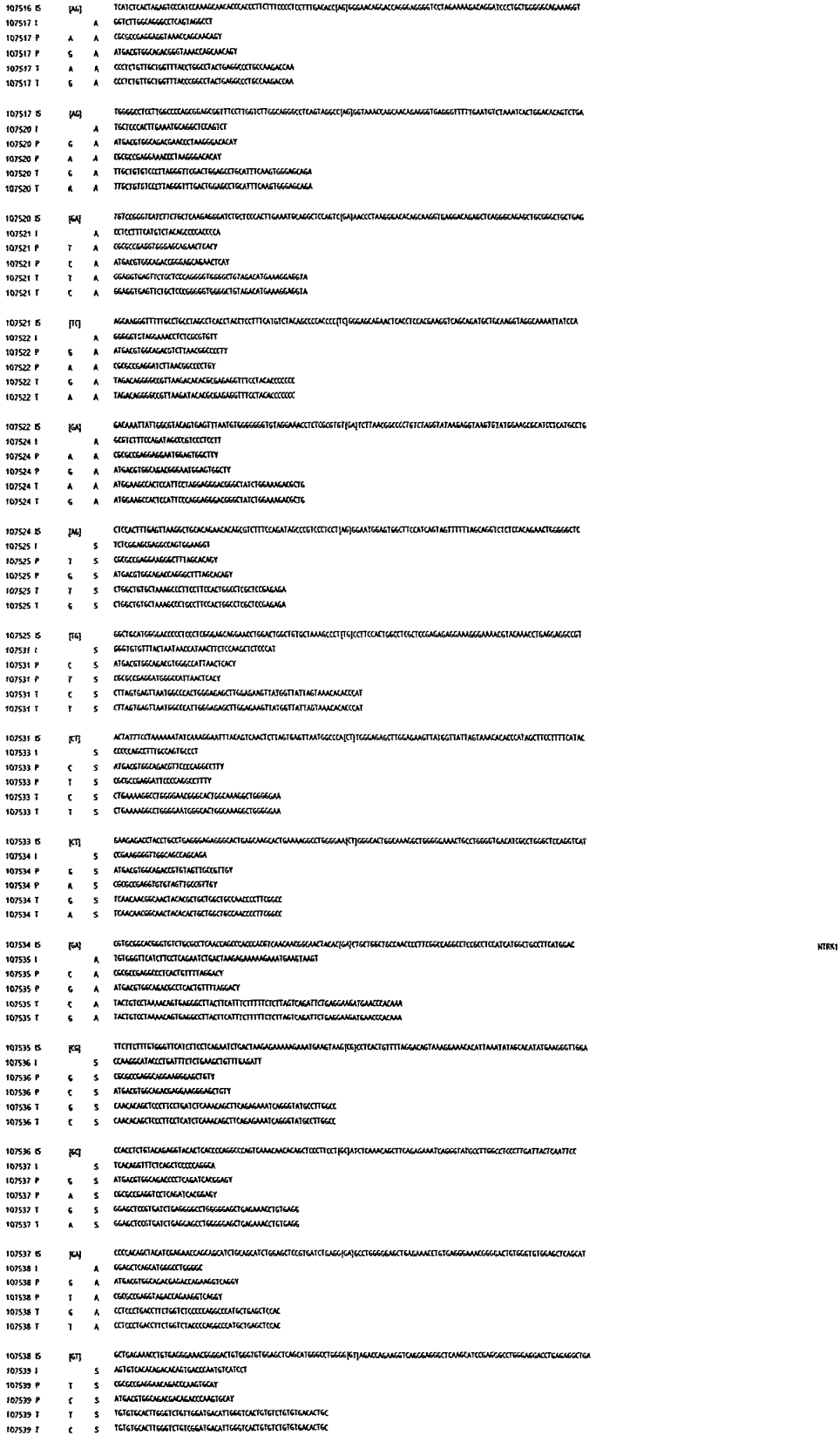


FIGURE 129G



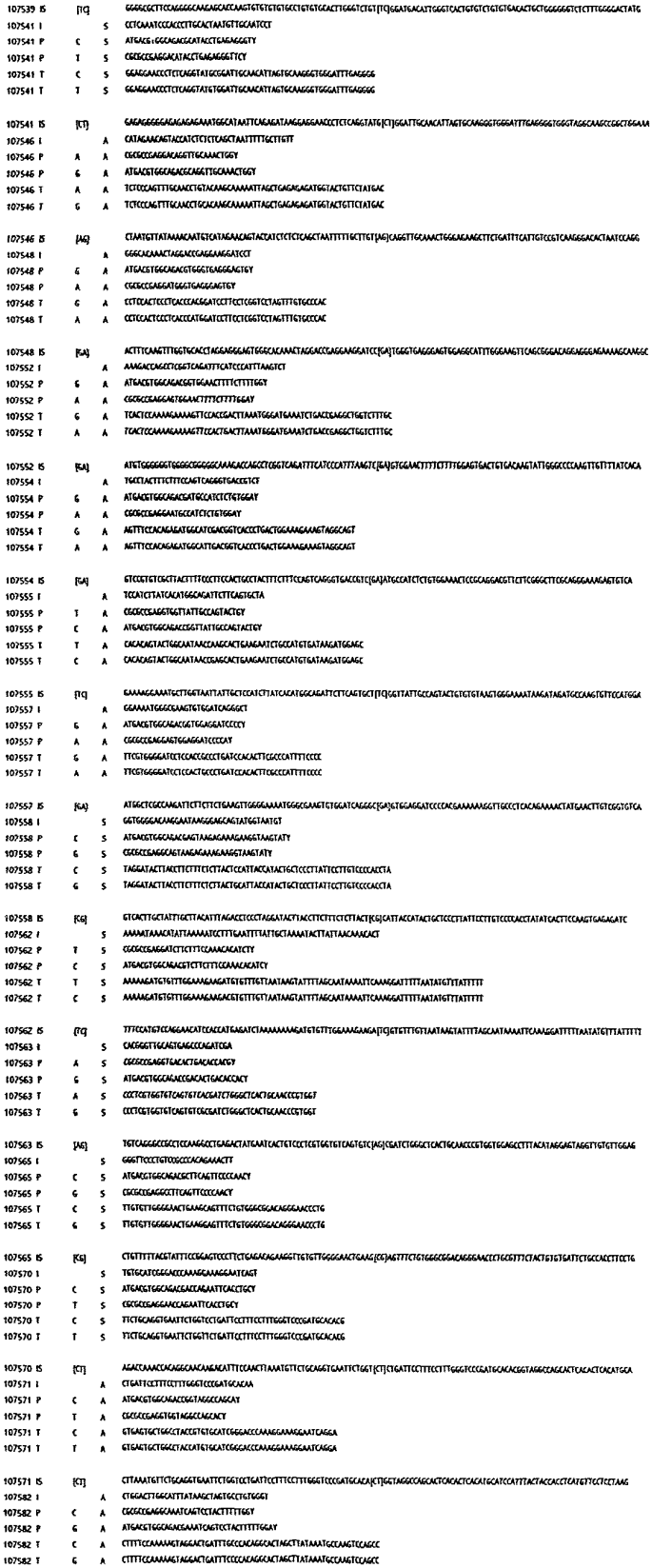
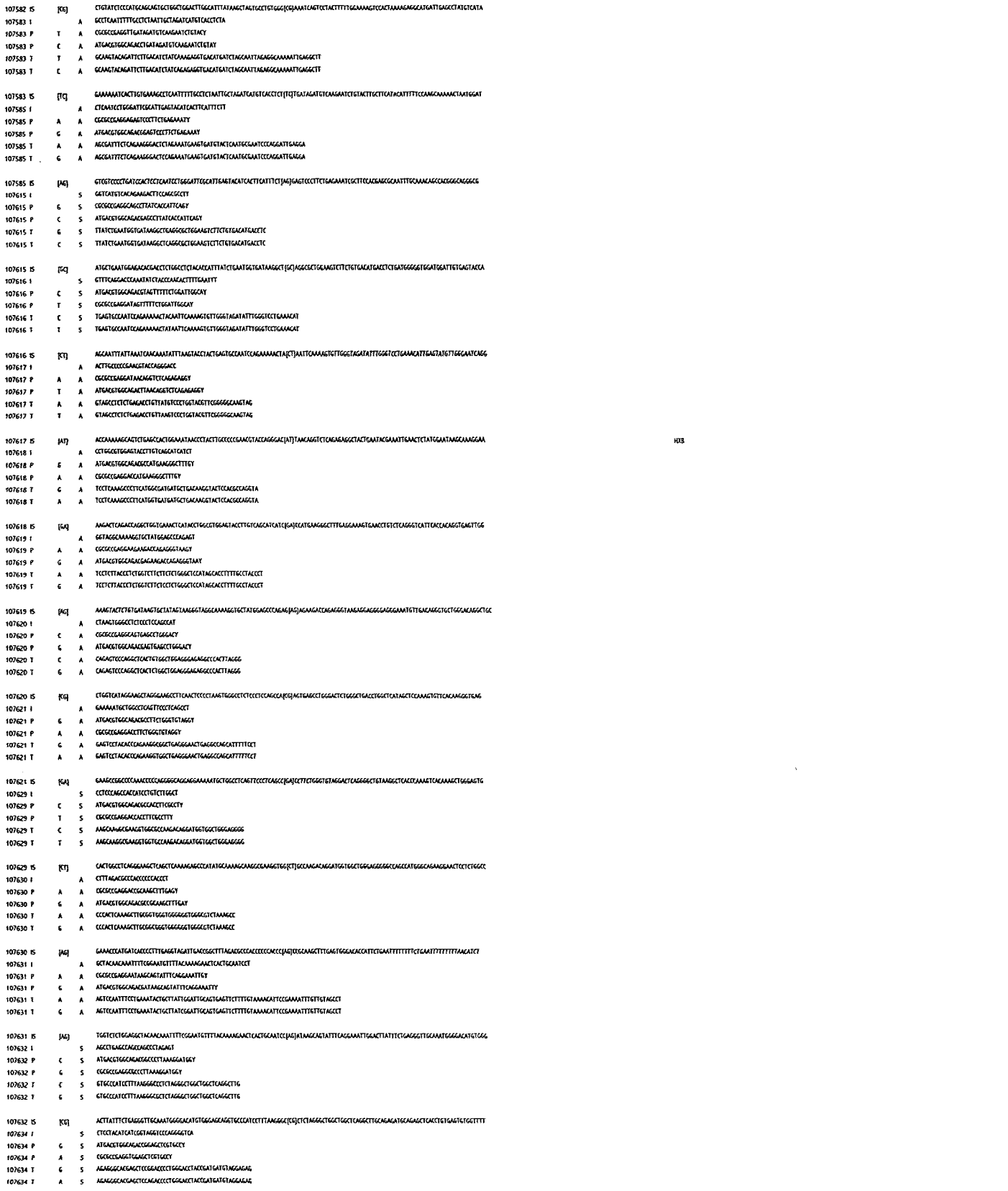


FIGURE 129G



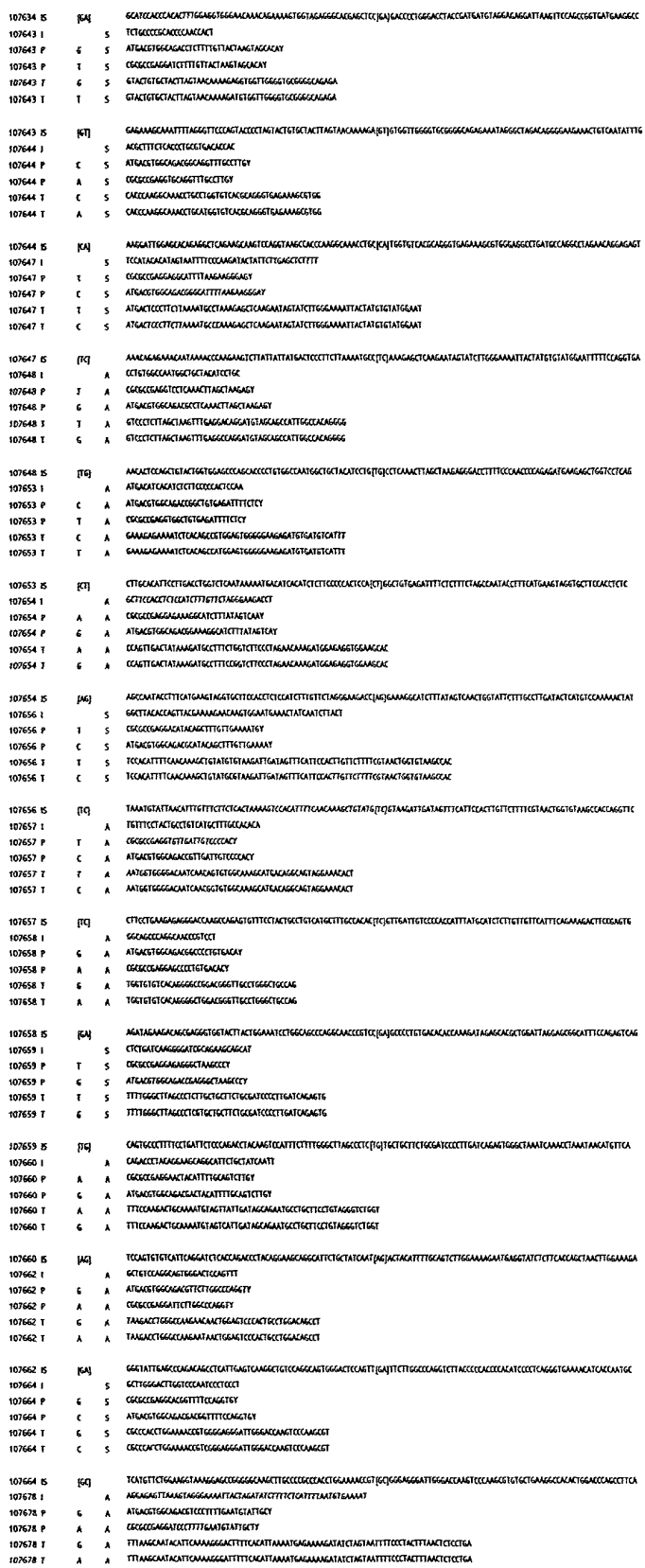
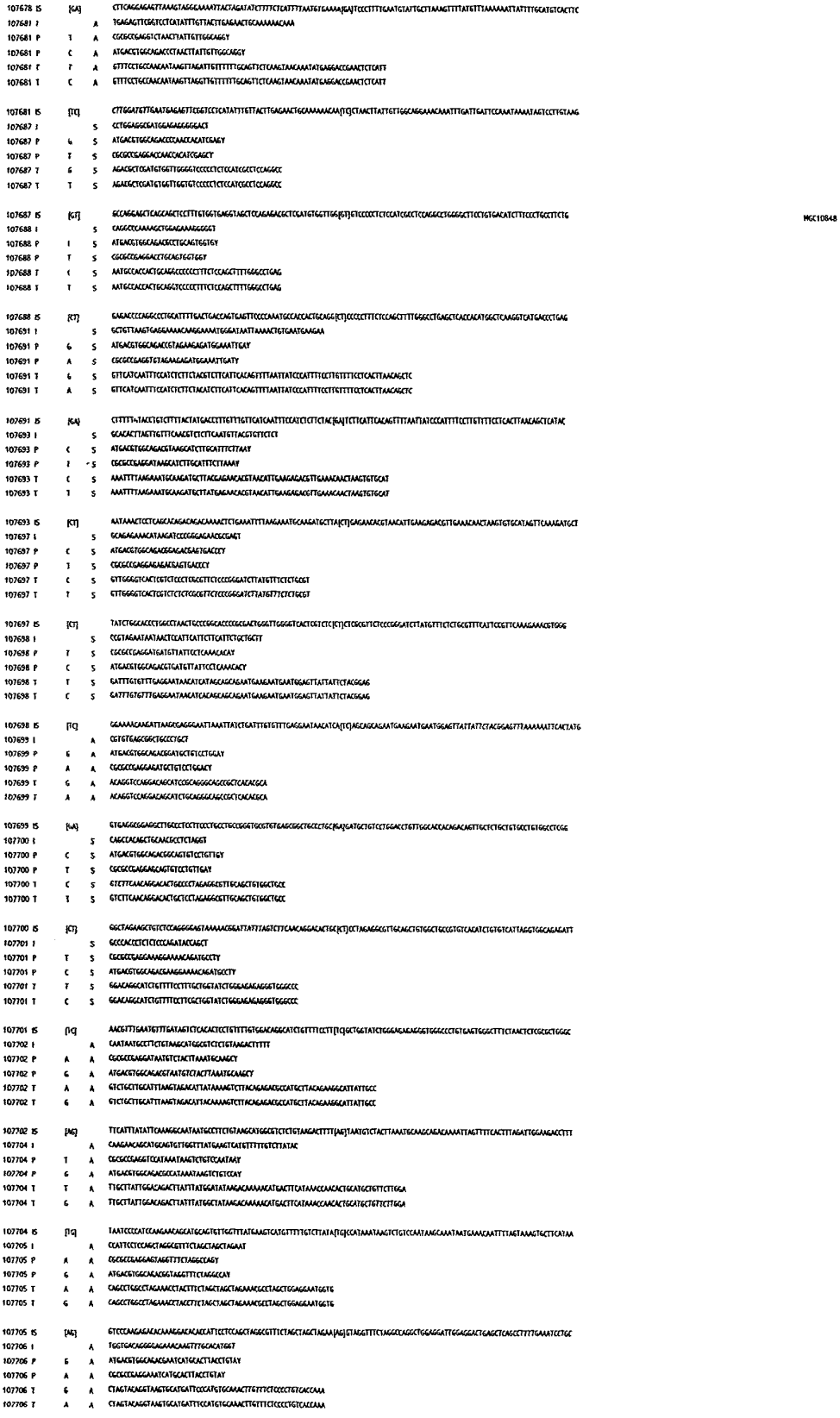


FIGURE 129G



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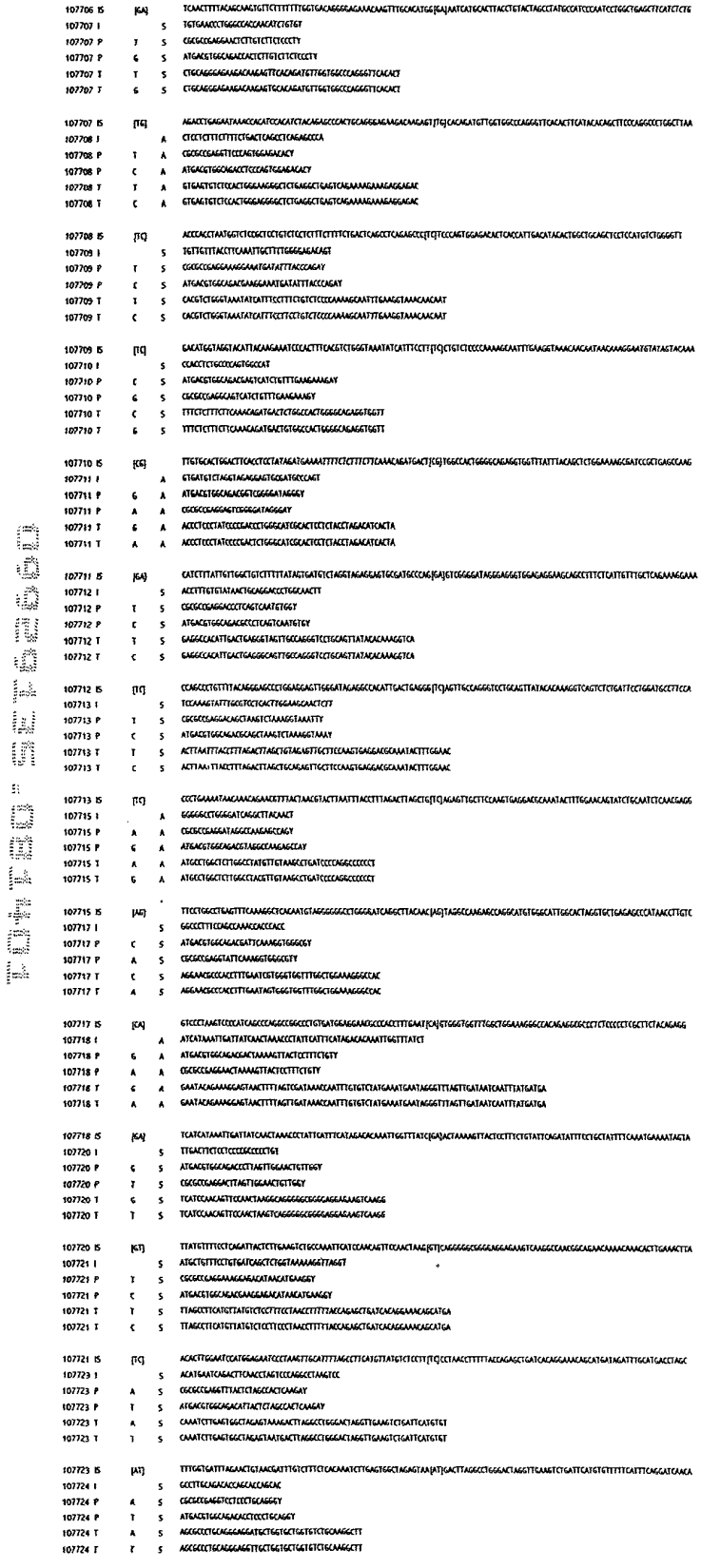
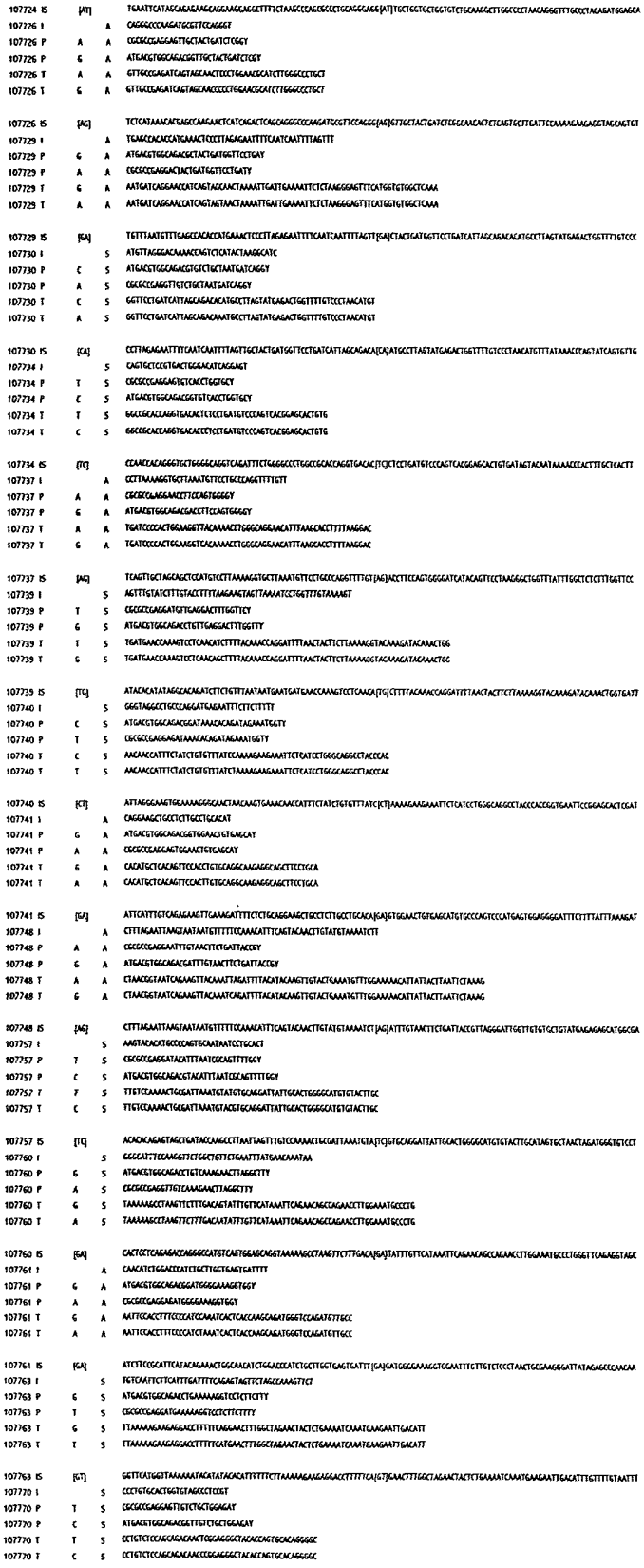
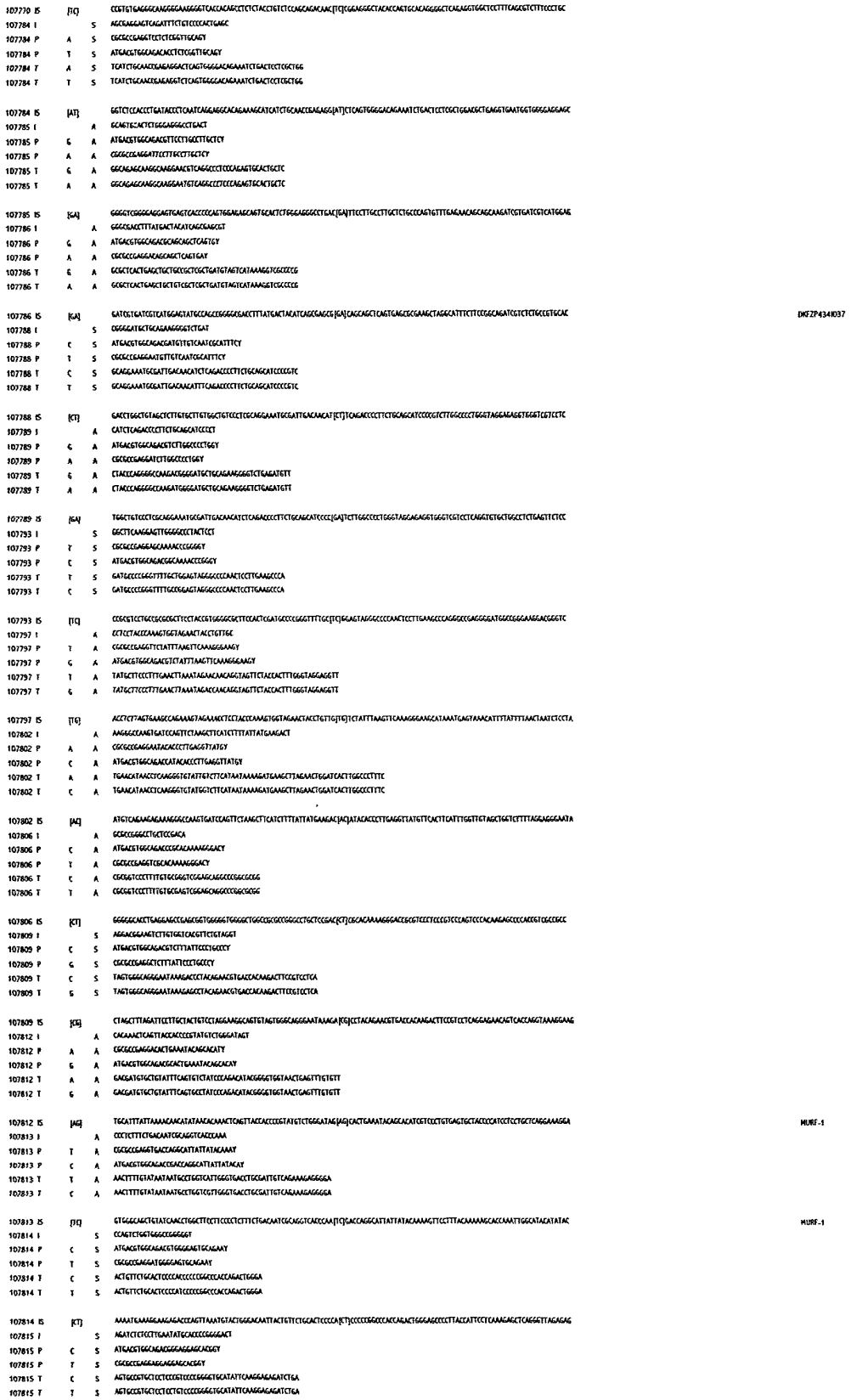
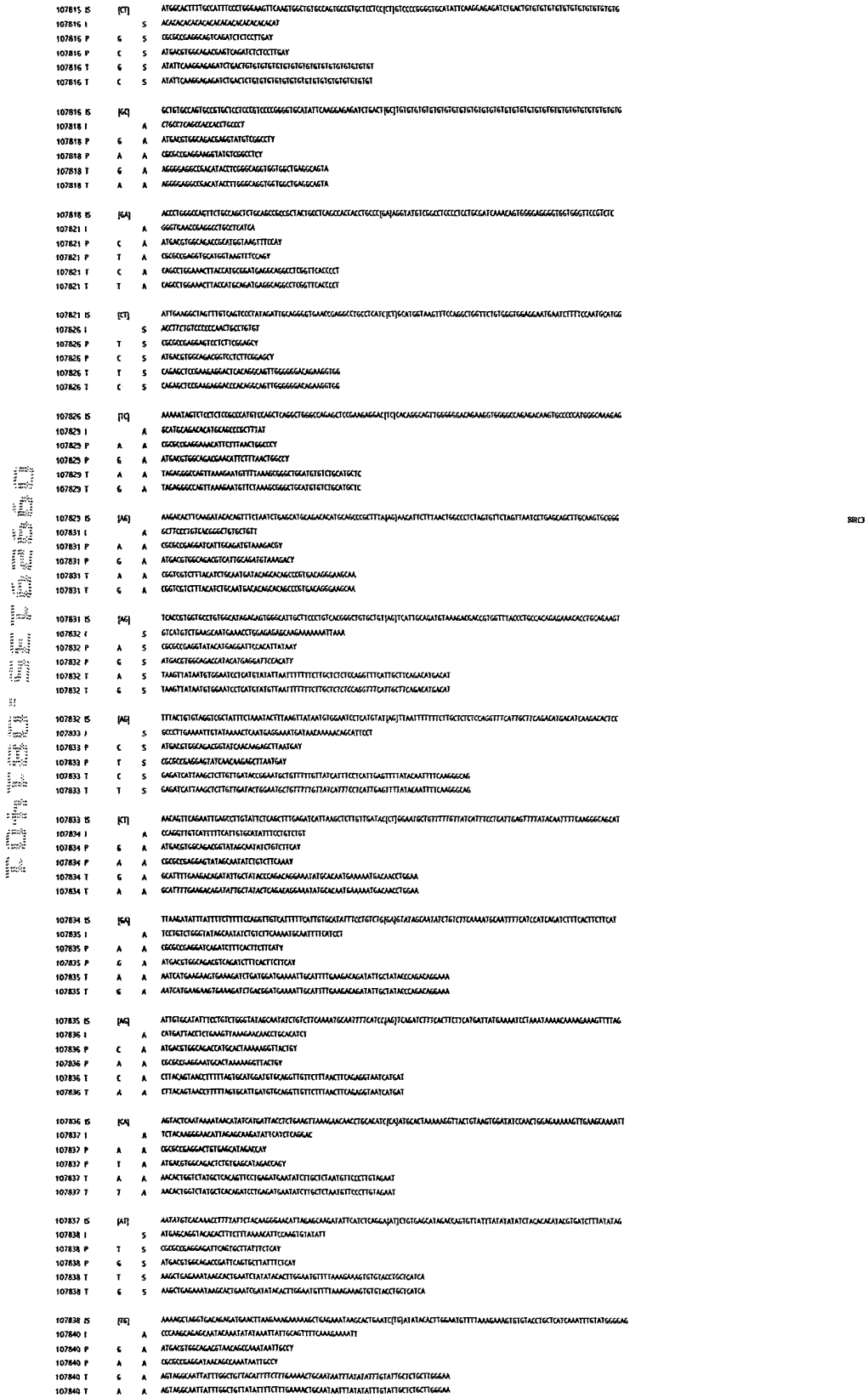


FIGURE 129G







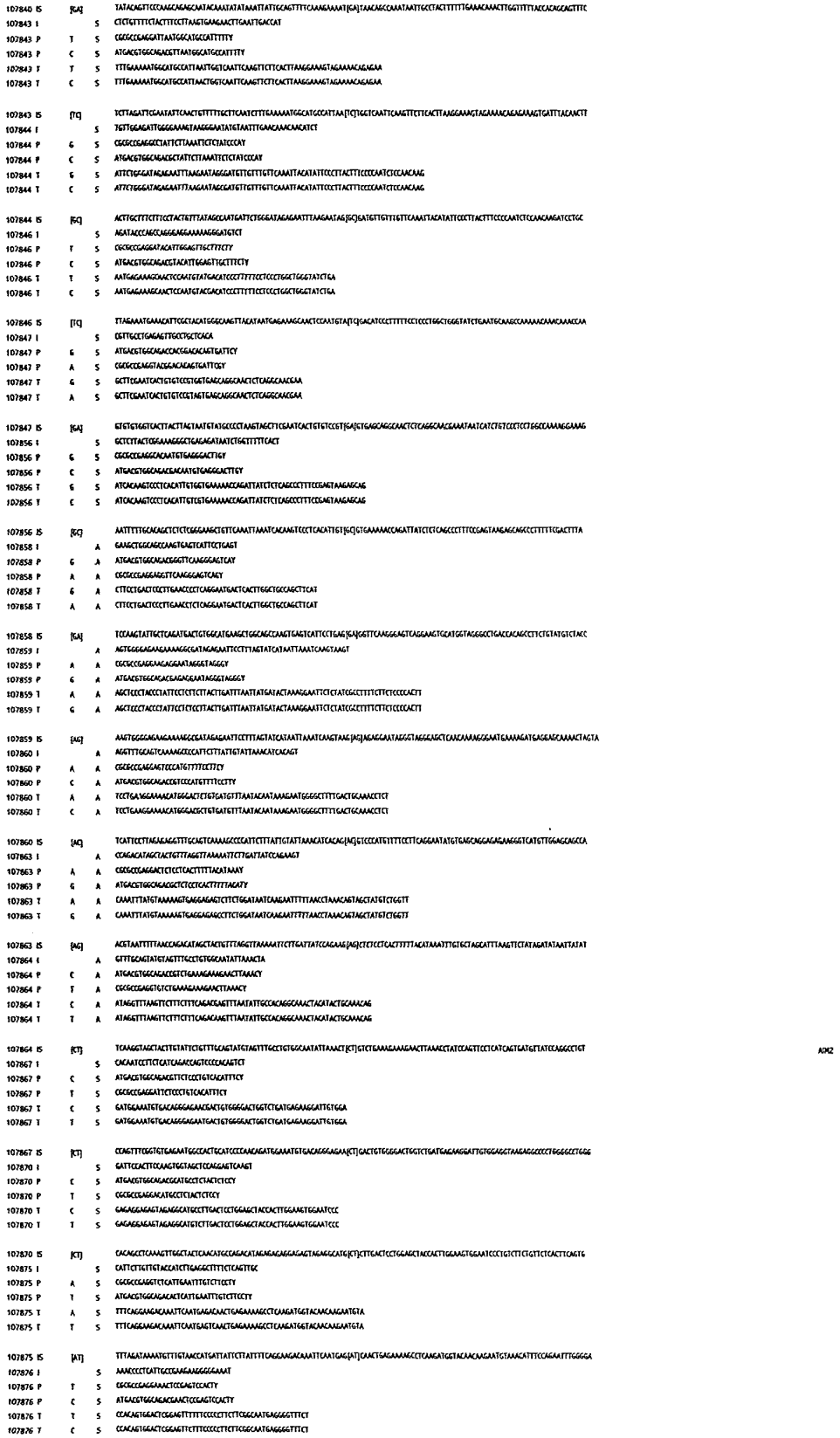

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107843 P C S ATGACGTGGCAGACGTTAATGGCATGCCATTTTY
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107844 P C S ATGACGTGGCAGACGCTATTCTTAAATTCTCTATCCCAY
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107863 P G A ATGACGTGGCAGACGCTCTCCTCACTTTTTACATY
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107867 P C S ATGACGTGGCAGACGTTCTCCCTGTCACATTTCY
107867 P T S CGCGCCGAGGATTCTCCCTGTCACATTTCY
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107876 P T S CGCGCCGAGGAAACTCCGAGTCCACTY
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FIGURE 129G

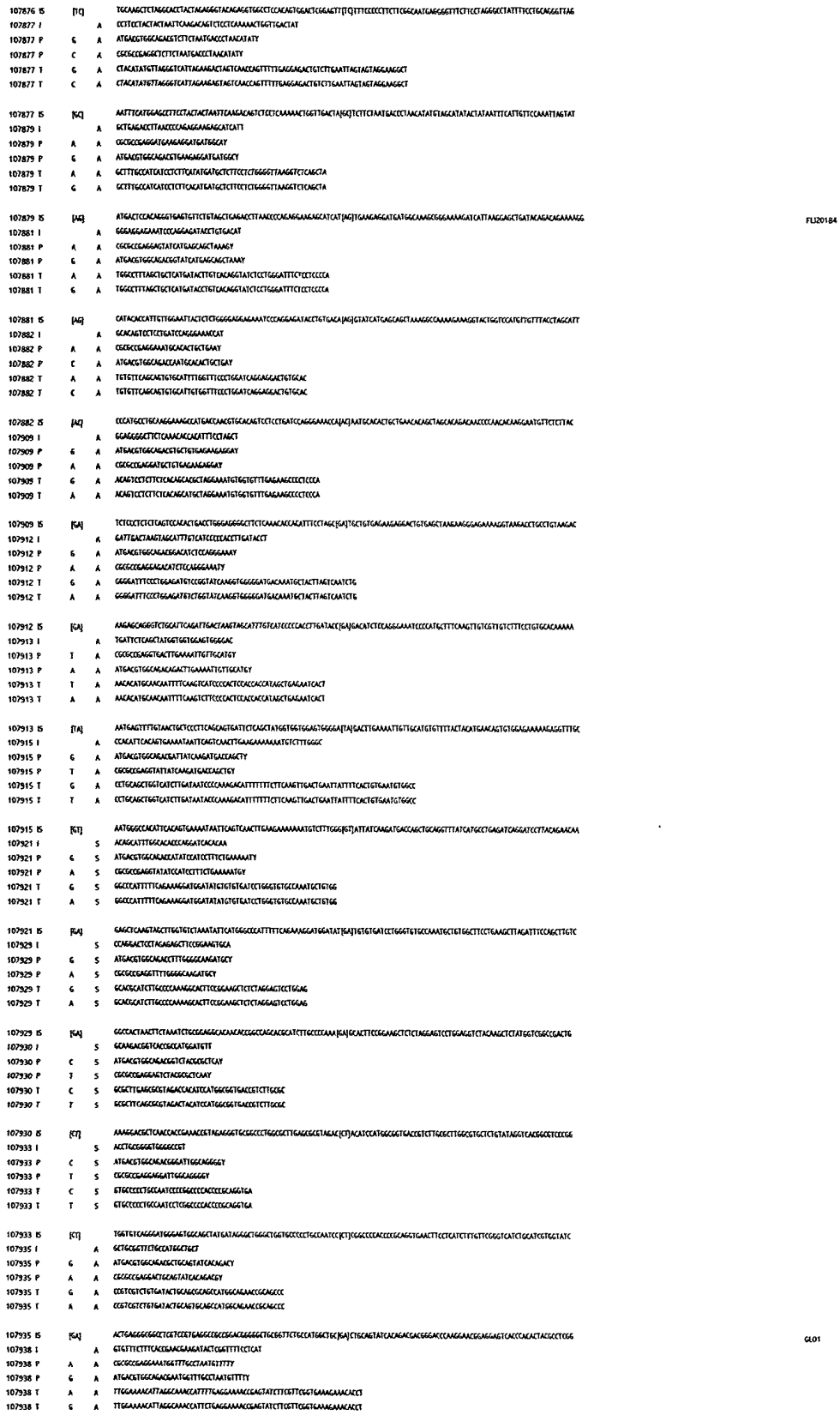
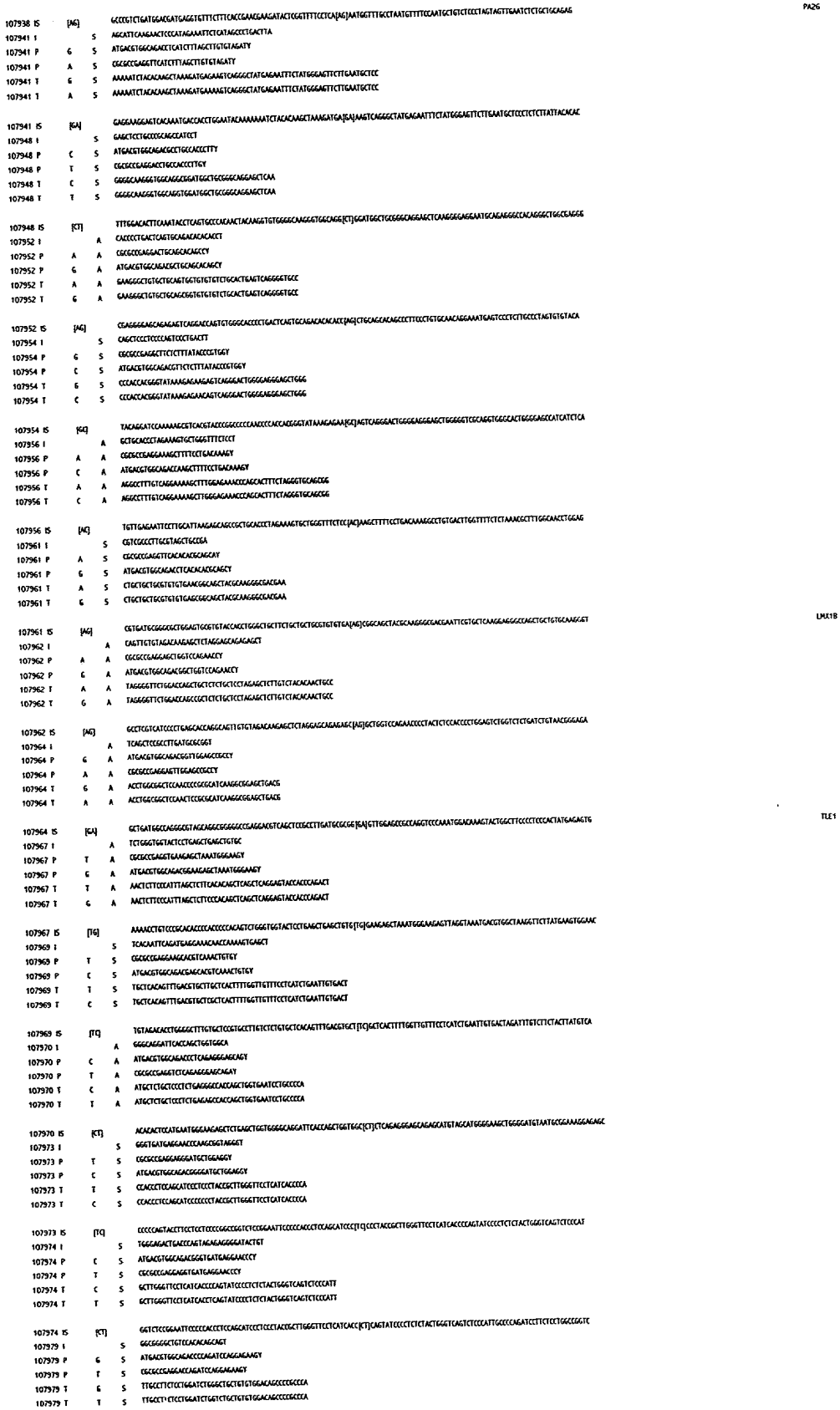


FIGURE 129G



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Express Mail No. EV 339 905 490 US

FIGURE 129G

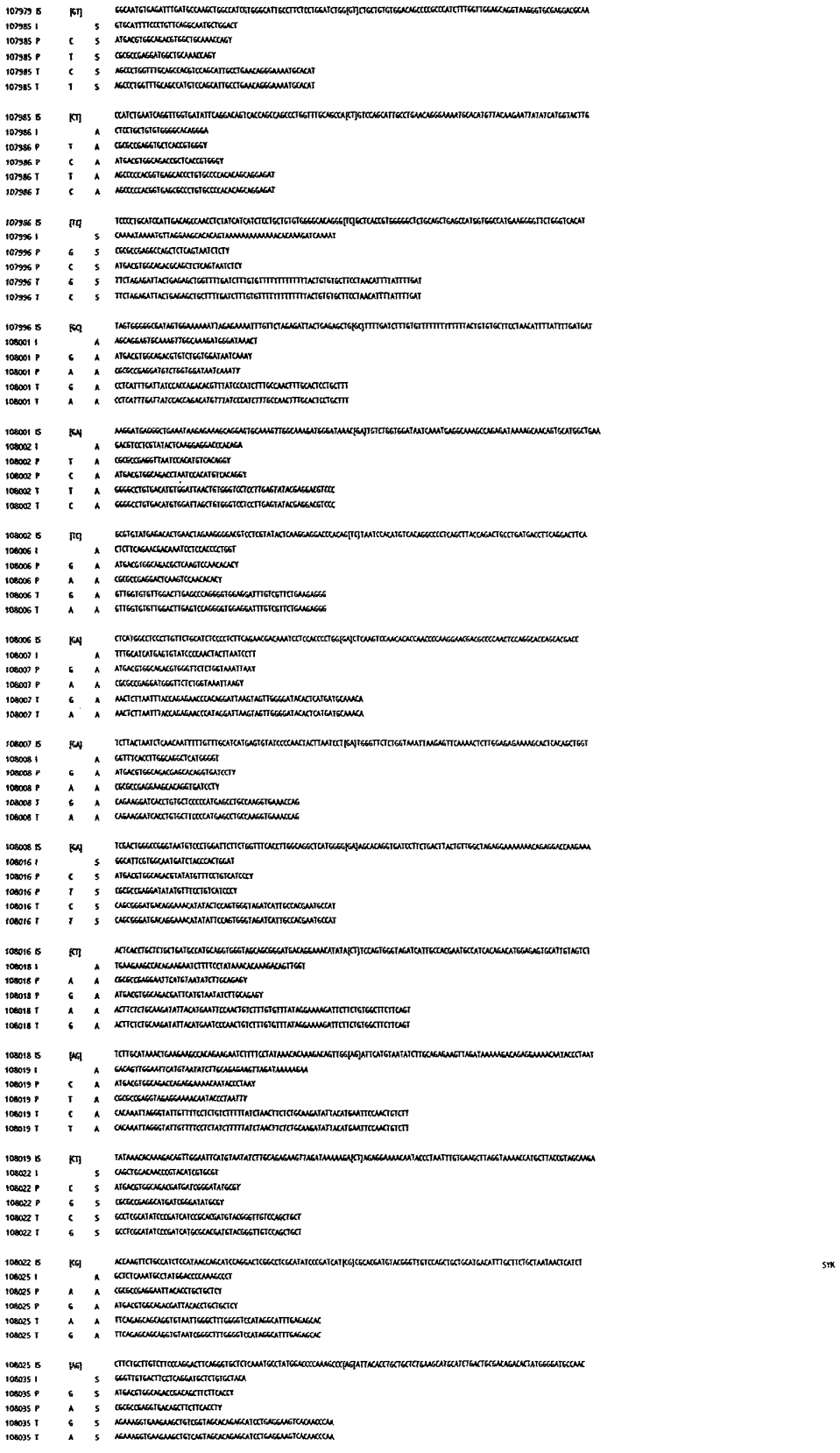
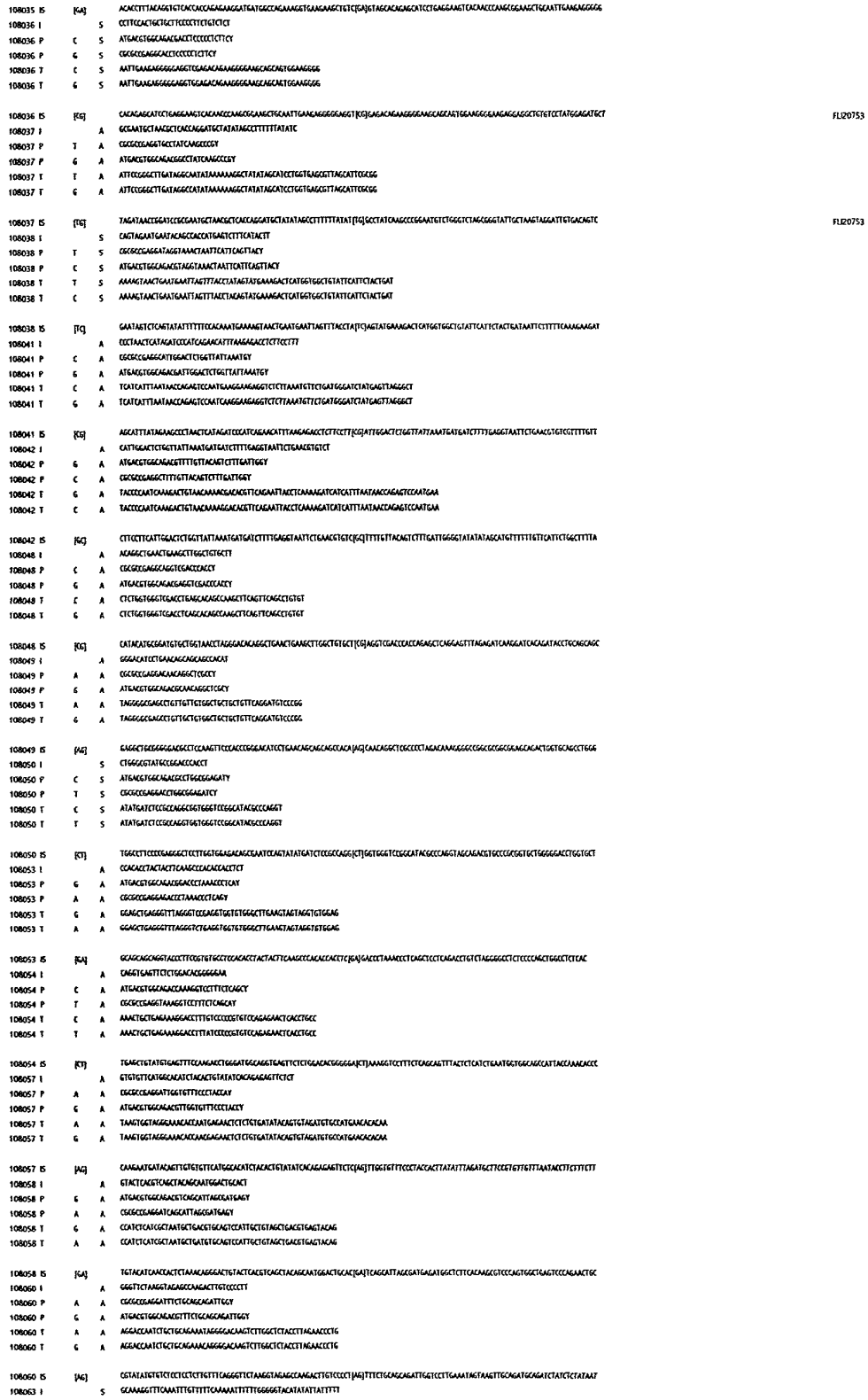


FIGURE 129G



Attorney Docket No. 10466-0001

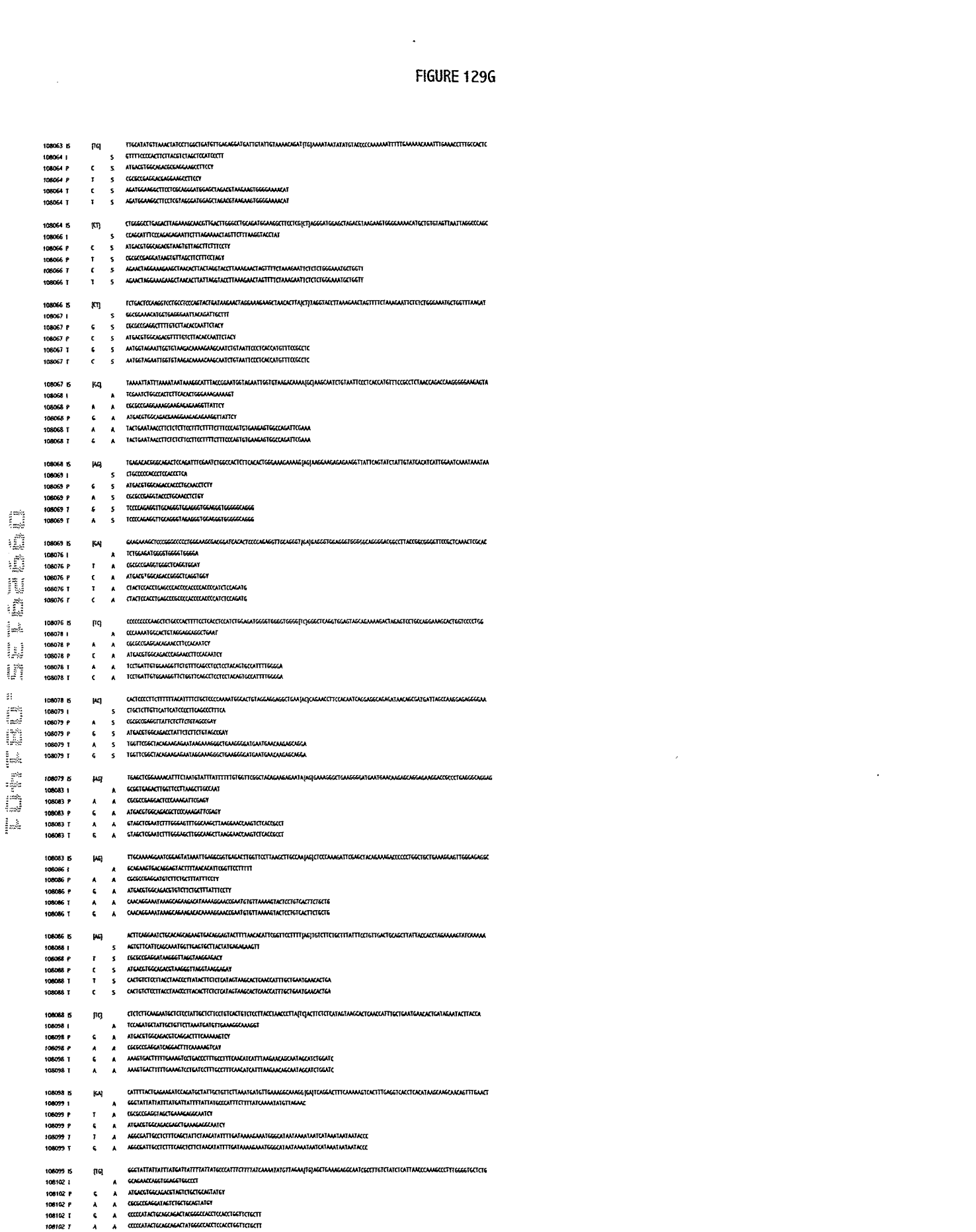
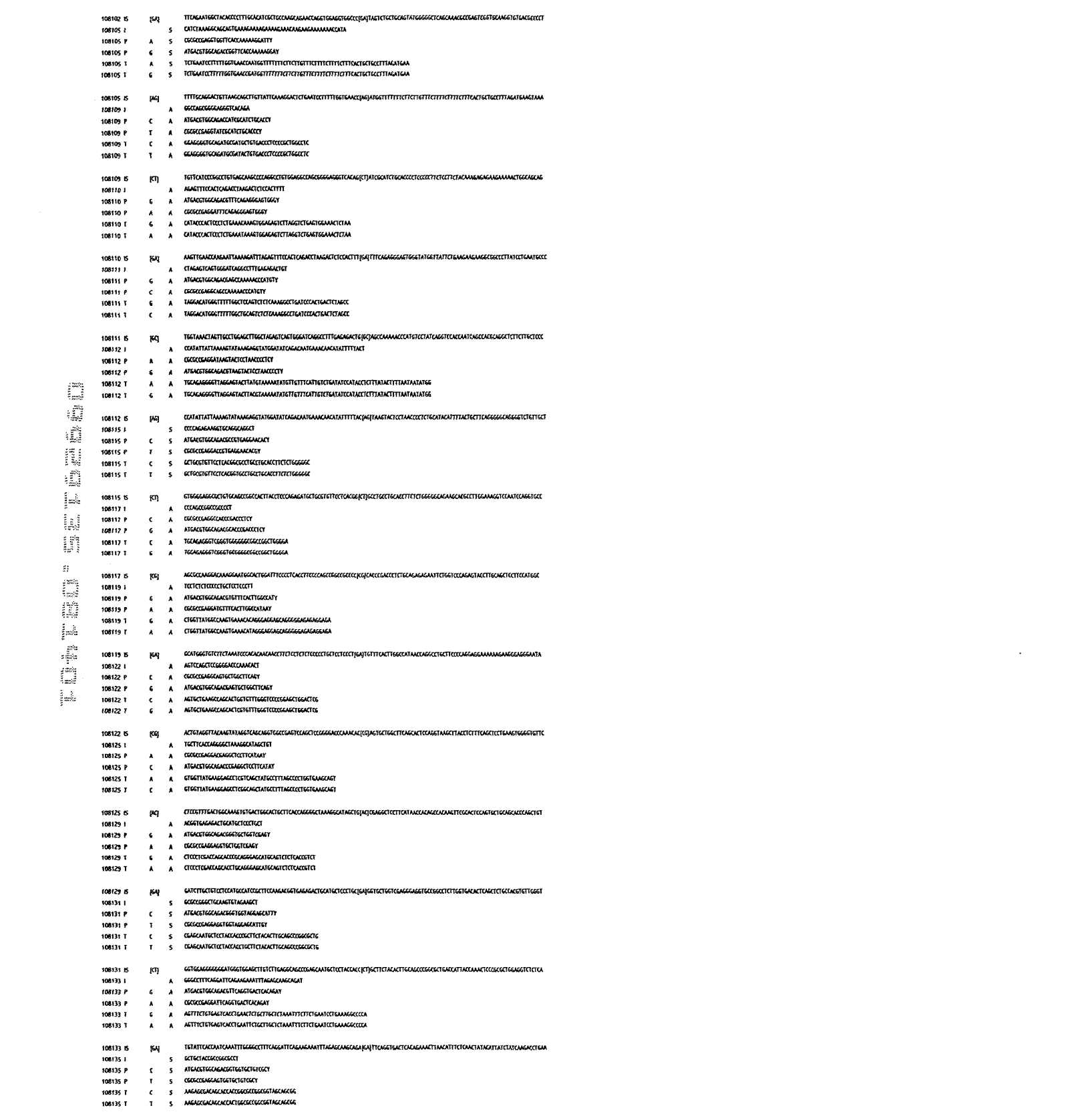

108063 15 [TG] TTGCATATGTTAAACTATCCTGGCTGATGTTGAGAGGATGATTGTATTGTAAAACAGAT[TG]AAAATAATATATGTACCCCAAAAAATTTTTGAAAACAAATTTGAAACCTTTGCCACTC
108064 I S GTTTTCCCCACTTCTTACGTCTAGCTCCATCCCTT
108064 P C S ATGACGTGGCAGACGCGAGGAAGCCTTCCT
108064 P T S CGCGCCGAGGACGAGGAAGCCTTCCT
108064 T C S AGATGCAAGGCTTCCTCGCAGGGATGGAGCTAAGAAGTGGGGAAAACAT
108064 T T S AGATGGAAGGCTTCCTCGTAGGGATGGAGCTAGACGTAAGAAGTGGGGAAAACAT
108064 15 [CT] CTGGGGCCTGAGACTTAGAAAGCAACGTTGACTTGGGCCTGCAGATGGAAGGCTTCCTCG[CT]AGGGATGGAGCTAGACGTAAGAAGTGGGGAAAACATGCTGTGTAGTTAATTAGGCCCAGC
108066 I S CCAGCATTTCCCAGACAGAATTCTTTAGAAAACTAGTTCTTTAAGGTACCTAT
108066 P C S ATGACGTGGCAGACGTAAGTGTTAGCTTCTTTCCTY
108066 P T S CGCGCCGAGGATAAGTGTTAGCTTCTTTCCTAGY
108066 T C S AGAACTAGGAAAGAAGCTAACACTTACTAGGTACCTTAAAGAACTAGTTTTCTAAAGAATTCTCTCTGGGAAATGCTGGTT
108066 T T S AGAACTAGGAAAGAAGCTAACACTTATTAGGTACCTTAAAGAACTAGTTTTCTAAAGAATTCTCTCTGGGAAATGCTGGTT
108066 15 [CT] TCTGACTCCAAGGTCCTGCCTCCCAGTACTGATAAGAACTAGGAAAGAAGCTAACACTTA[CT]TAGGTACCTTAAAGAACTAGTTTTCTAAAGAATTCTCTCTGGGAAATGCTGGTTTAAGAT
108067 I S GGCGGAAACATGGTGAGGGAATTACAGATTGCTTT
108067 P G S CGCGCCGAGGCTTTTGTCTTACACCAATTCTACY
108067 P C S ATGACGTGGCAGACGTTTTGTCTTACACCAATTCTACY
108067 T G S AATGGTAGAATTGGTGTAAGACAAAAGAAGCAATCTGTAATTCCCTCACCATGTTTCCGCCTC
108067 T C S AATGGTAGAATTGGTGTAAGACAAAACAAGCAATCTGTAATTCCCTCACCATGTTTCCGCCTC
108067 15 [GA] TAAAATTATTTAAAATAATAAAGGCATTTACCGGAATGGTAGAATTGGTGTAAGACAAAA[GG]AAGCAATCTGTAATTCCCTCACCATGTTCCGCCTCTAACCAGACCAAGGGGGAAGAGTA
108068 I A TCGAATCTGGCCACTCTTCACACTGGGAAAGAAAGT
108068 P A A CGCGCCGAGGAAAGGAAGAGAGAAGGTTATTCY
108068 P G A ATGACGTGGCAGACGAAGGAAGAGAAGGTTATTCY
108068 T A A TACTGAATAACCTTCTCTCTTCCTTTCTTTCCTTCCCAGTGTGAAGAGTGGCCAGATTCGAAA
108068 T G A TACTGAATAACCTTCTCTCTTCCTTTCTTTCCCAGTGTGAAGAGTGGCCAGATTCGAAA
108068 15 [AG] TGAGACACGGGCAGACTCAGATTTCGAATCTGGCCACTCTCACACTGGGAAAGAAAG[AG]AAGGAAGAGAAGAAGGTTATTCAGTATCTATTGTATCACATCATTGGAATCAAATAAATAA
108069 I S CTGCCCCCACCCTCCACCCTCA
108069 P G S ATGACGTGGCAGACCCACCCTGCAACCTCTY
108069 P A S CGCGCCGAGGTACCTGCAACCTCTGY
108069 T G S TCCCCAGAGGTTGCAGGGTGGAGGGTGGAGGGTGGGGGCAGGG
108069 T A S TCCCCAGAGGTTGCAGGGTAGAGGGTGGAGGGTGGGGGCAGGG
108069 15 [GA] GAAGAAAGCTCCCGGGCCCCCTGGGAAGCGACGGATCACACTCCCCAGAGGTTGCAGGGT[GA]GAGGGTGGAGGGTGGGGGCAGGGGACGGCCTTACCGGCGGGGTTCCGCTCAAACTCGCAC
108076 I A TCTGGAGATGGGGTGGGGTGGGGA
108076 P T A CGCGCCGAGGTGGGCTCAGGTGGAY
108076 P C A ATGACGTGGCAGACGGGGCTCAGGTGGY
108076 T T A CTACTCCACCTGAGCCCACCCCACCCCATCTCCAGATG
108076 T C A CTACTCCACCTGAGCCCGCCCACCCCACCCCATCTCCAGATG
108076 15 [TC] CCCCCCCCCAAGCTCTGCCCACTTTTCCTCACCTCCATCTGGAGATGGGGTGGGGTGGGG[TC]GGGCTCAGGTGGAGTAGCAGAAAAGACTAGAGTCCTGCCAGGAAAGCACTGGTCCCCTGG
108078 I A CCCAAAATGGCACTGTAGGAGCAGGCTGAAT
108078 P A A CGCGCCGAGGACAGAACCTTCCACAATCY
108078 P C A ATGACGTGGCAGACCCAGAACCTTCCACAATCY
108078 T A A TCCTGATTGTGGAAGGTTCTGTTTCAGCCTCCTCCTACAGTGCCATTTTGGGGA
108078 T C A TCCTGATTGTGGAAGGTTCTGGTTCAGCCTCCTCCTACAGTGCCATTTTGGGGA
108078 15 [AC] CACTCCCCTTCTTTTTTACATTTTCTGCTCCCCAAAATGGCACTGTAGGAGGAGGCTGAA[AC]CAGAACCTTCCACAATCAGCAGGCAGAGATAACAGCGATGATTAGCCAAGCAGAGGGGAA
108079 I S CTGCTCTTGTTCATTCATCCCTTCAGCCCTTTCA
108079 P A S CGCGCCGAGGTTATTCTCTTCTGTAGCCGAY
108079 P G S ATGACGTGGCAGACCTATTCTCTTCTGTAGCCGAY
108079 T A S TGGTTCGGCTACAGAAGAGAATAGGAAAGGGCTGAAGGGGATGAATGAACAAGAGCAGCA
108079 T G S TGGTTCGGCTACAGAAGAGAATAGGAAAGGGCTGAAGGGGATGAATGAACAAGAGCAGGA
108079 15 [AG] TGAGCTCGGAAAACATTTCTAATGTATTTATTTTTTGTGGTTCGGCTACAGAAGAGAATA[AG]GAAAGGGCTGAAGGGGATGAATGAACAAGAGCAGGAGAAGGACCGCCCTGAGGCAGGAG
108083 I A GCGGTGAGACTTGGTTCCTTAAGCTTGCCAAT
108083 P A A CGCGCCGAGGACTCCCAAAGATTCGAGY
108083 P G A ATGACGTGGCAGACGCTCCCAAGATTCGAGY
108083 T A A GTAGCTCGAATCTTTGGGAGTTTGGCAAGCTTAAGGAACCAAGTCTCACCGCCT
108083 T G A GTAGCTCGAATCTTTGGGAGCTTGGCAAGCTTAAGGAACCAAGTCTCACCGCCT
108083 15 [AG] TTGCAAAAGGAATCGGAGTATAAATTGAGGCGGTGAGACTTGGTTCCTTAAGCTTGCCAA[AG]CTCCCAAAGATTCGAGCTACAGAAGAGACCCCCCTGGCTGCTGAAGGAGTTGGGAGAGGC
108086 I A GCAGAAGTGACAGGAGTACTTTTAACACATTCGGTTCCTTTTT
108086 P A A CGCGCCGAGGATGTCTTCTGCTTTATTTCCTY
108086 P G A ATGACGTGGCAGACGTGTCTTCTGCTTTATTTCCTY
108086 T A A CAACAGGAAATAAAGCAGAAGACATAAAAGGAACCGAATGTGTTAAAAGTACTCCTGTCACTTCTGCTG
108086 T G A CAACAGGAAATAAAGCAGAAGACACAAAAGGAACCGAATGTGTTAAAAGTACTCCTGTCACTTCTGCTG
108086 15 [AG] ACTTCAGGAATCTGCACAGCAGAAGTGACAGGAGTACTTTTAACACATTCGGTTCCTTTT[AG]TGTCTTCTGCTTTATTTCCTGTTGACTGCAGCTTATTACCACCTAGAAAAGTATCAAAAA
108088 I S AGTGTTCATTCAGCAAATGGTTGAGTGCTTACTATGAGAGAAGTT
108088 P T S CGCGCCGAGGATAAGGGTTAGGTAAGGAGACY
108088 P C S ATGACGTGGCAGACGTAAGGGTTAGGTAAGGAGAY
108088 T T S CACTGTCTCCTTACCTAACCCTTATACTTCTCTCATAGTAAGCACTCAACCATTTGCTGAATGAACACTGA
108088 T C S CACTGTCTCCTTACCTAACCCTTACACTTCTCTCATAGTAAGCACTCAACCATTTGCTGAATGAACACTGA
108088 15 [TC] CTCTCTTCAAGAATGCTCTTCCTATTGCTCTCCTGTCACTGTCTCCTTACCTAACCCTTA[TC]ACTTCTCTTCATAGTAAGCACTCAACCATTTGCTGAATGAACACTGATAGAATACTTACCA
108098 I A TCCAGATGCTATTGCTGTTCTTAAATGATGTTGAAAGGCAAAGGT
108098 P G A ATGACGTGGCAGACGTCAGCACTTTCAAAAGTCY
108098 P A A CGCGCCGAGGATCAGGACTTTCAAAAGTCAY
108098 T G A AAAGTGACTTTTTGAAAGTCCTGACCCTTTGCCTTTCAACATCATTTAAGAACAGCAATAGCATCTGGATC
108098 T A A AAAGTGACTTTTTGAAAGTCCTGATCCTTTGCCTTTCAACATCATTTAAGAACAGCAATAGCATCTGGATC
108098 15 [GA] CATTTTACTGAGAAGATCCAGATGCTATTGCTGTTCTTAAATGATGTTGAAAGGCAAAGG[GA]TCAGGACTTTCAAAAGTCACTTTGAGGTCACCTCACATAAGCAAGCAACAGTTTGAACT
108099 I A GGGTATTATTATTTATGATTATTTTATTATGCCCATTTCTTTTATCAAAATATGTTAGAA
108099 P T A CGCGCCGAGGTAGCTGAAAGAGGCAATCY
108099 P G A ATGACGTGGCAGACGAGCTGAAAGAGGCAATCY
108099 T T A AGGCGATTGCCTCTTTCAGCTATTCTAACATATTTTGATAAAAGAAATGGGCATAATAAAATAATCATAAATAATAATACCC
108099 T G A AGGCGATTGCCTCTTTCAGCTCTTCTAACATATTTTGATAAAAGAAATGGGCATAATAAAATAATCATAAATAATAATACCC
108099 15 [TG] GGGTATTATTATTTATGATTATTTTATTATGCCCATTTCTTTTATCAAAATATGTTAGAA[TG]AGCTGAAAGAGGCAATCGCCTTGTCTATCTCATTAACCCAAAGCCCTTTGGGGTGCTCTG
108102 I A GCAGAACCAGGTGGAGGTGGCCCT
108102 P G A ATGACGTGGCAGACGTAGTCTGCTGCAGTATGY
108102 P A A CGCGCCGAGGATAGTCTGCTGCAGTATGY
108102 T G A CCCCCATACTGCAGCAGACTACGGGCCACCTCCACCTGGTTCTGCTT
108102 T A A CCCCCATACTGCAGCAGACTATGGGCCACCTCCACCTGGTTCTGCTT

FIGURE 129G



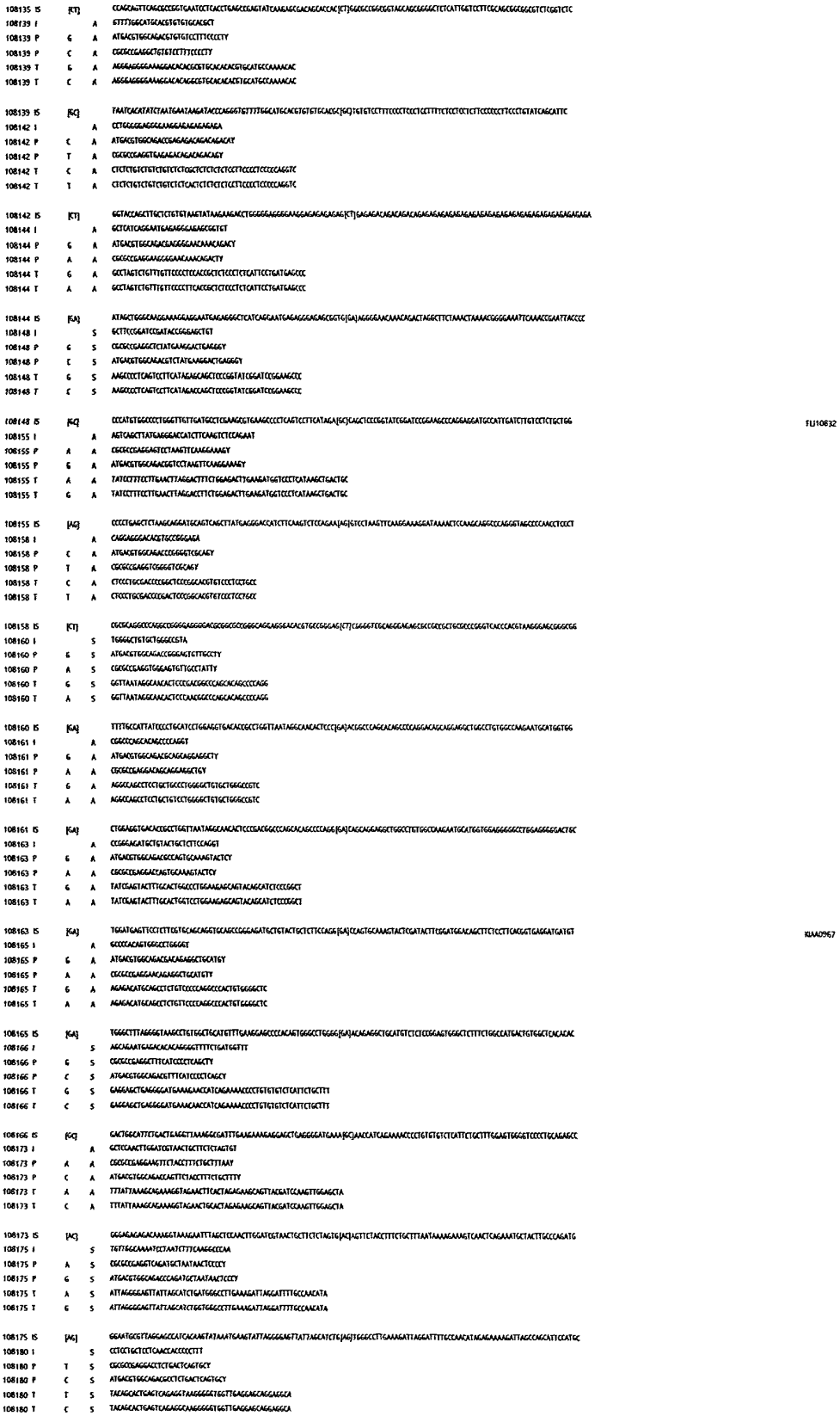


FIGURE 129G

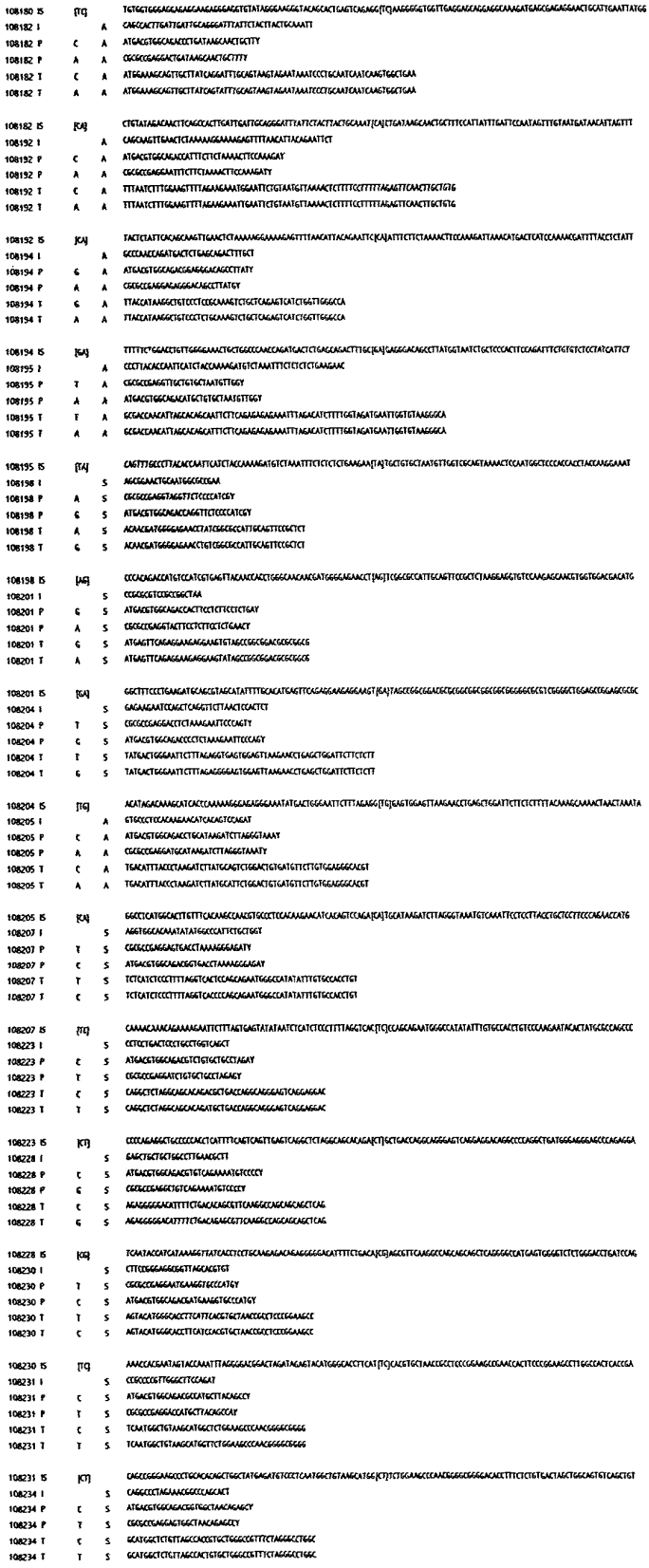
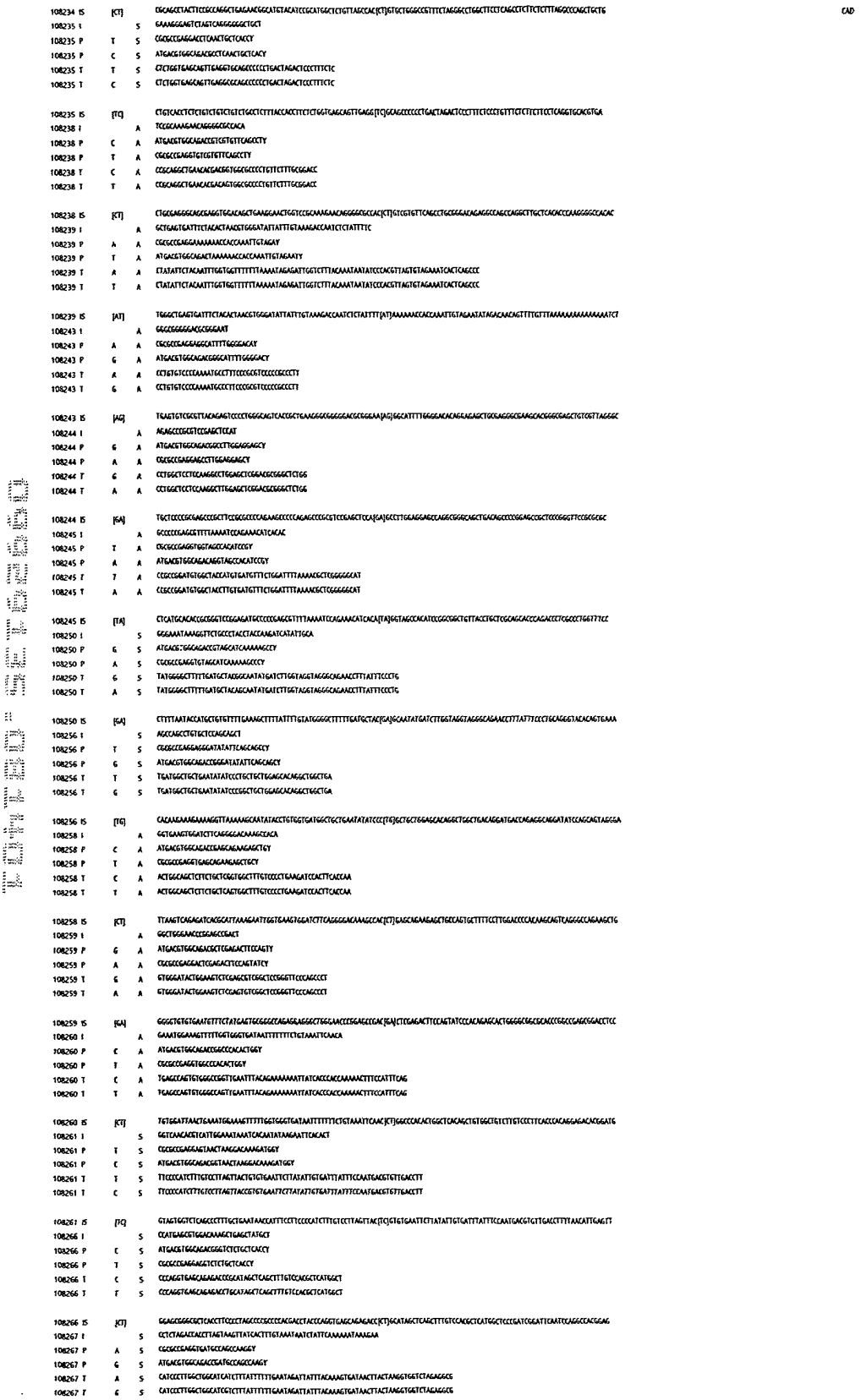


FIGURE 129G



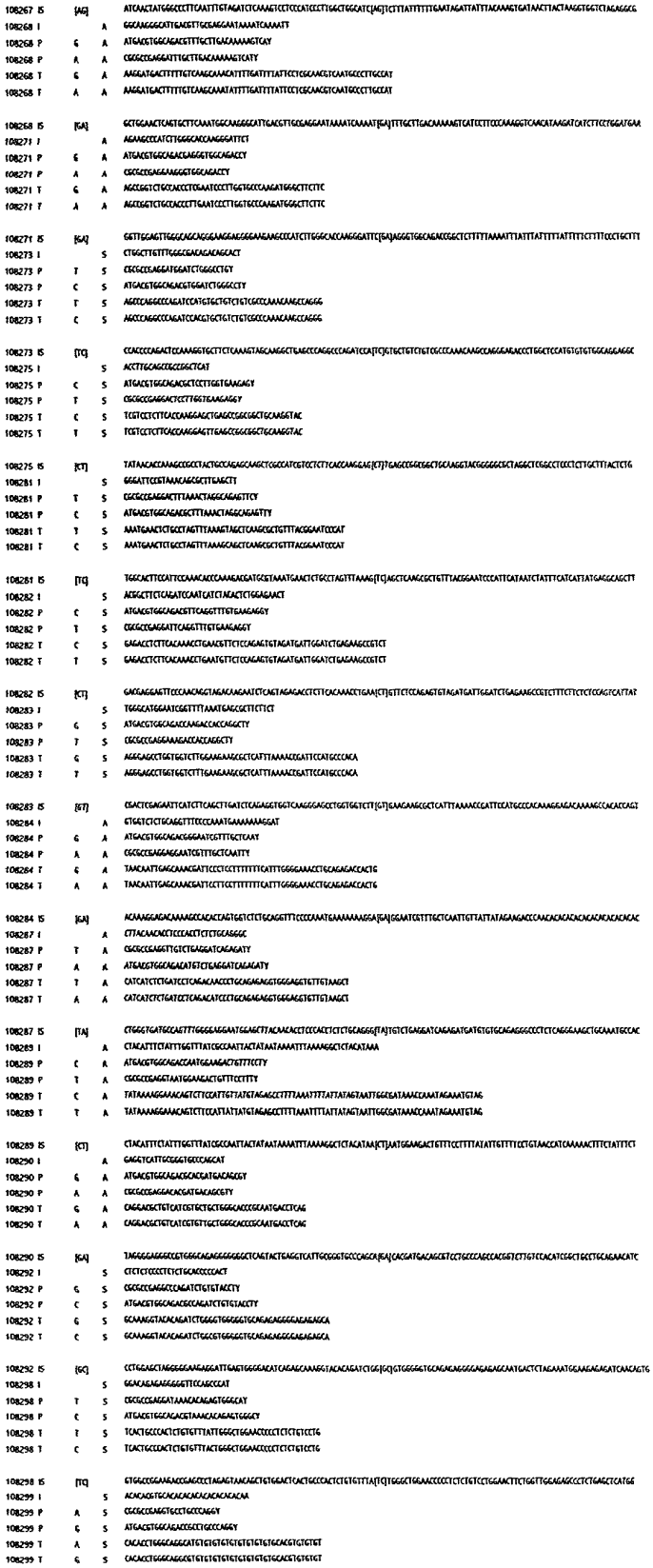
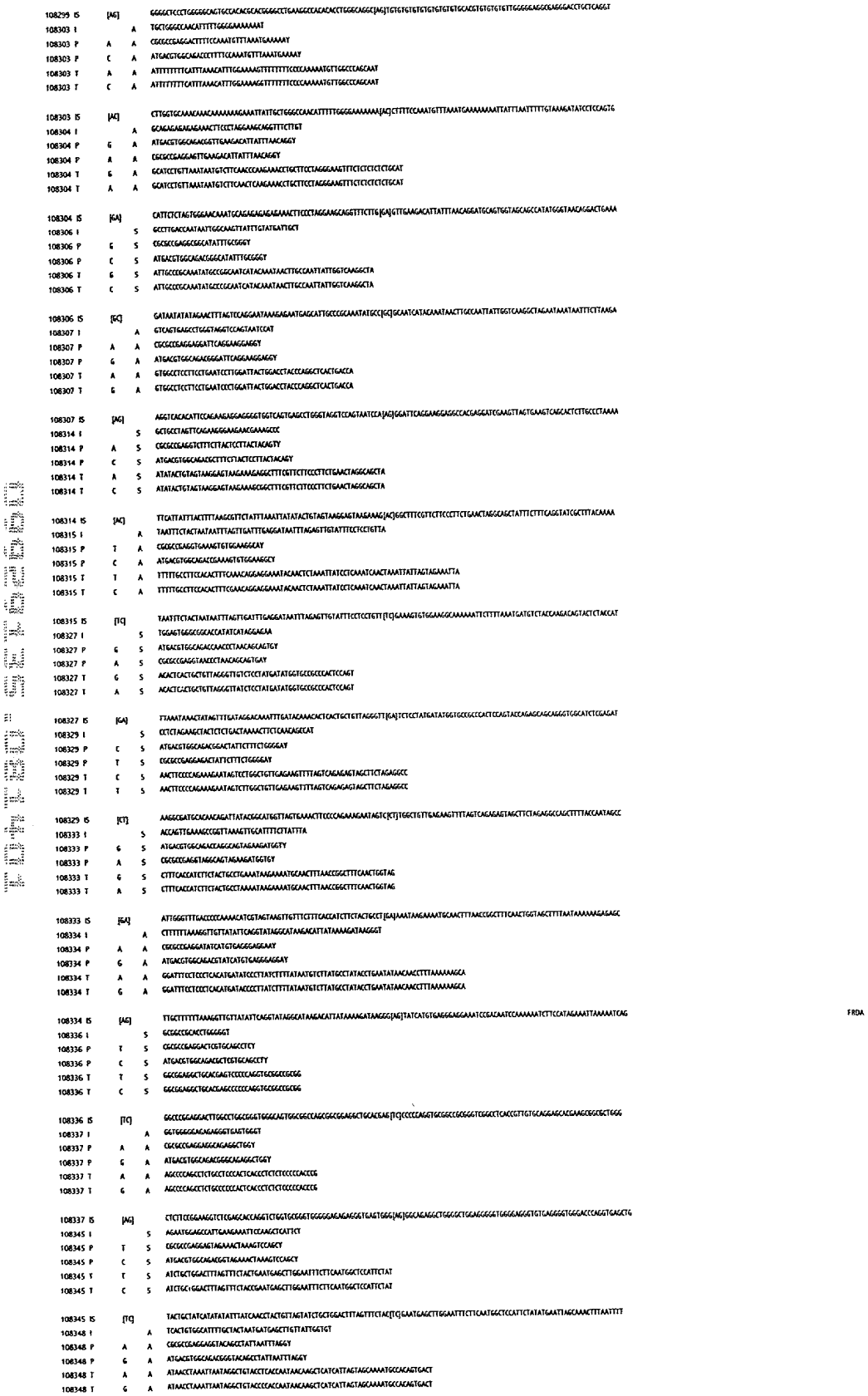


FIGURE 129G



FRDA

FIGURE 129G

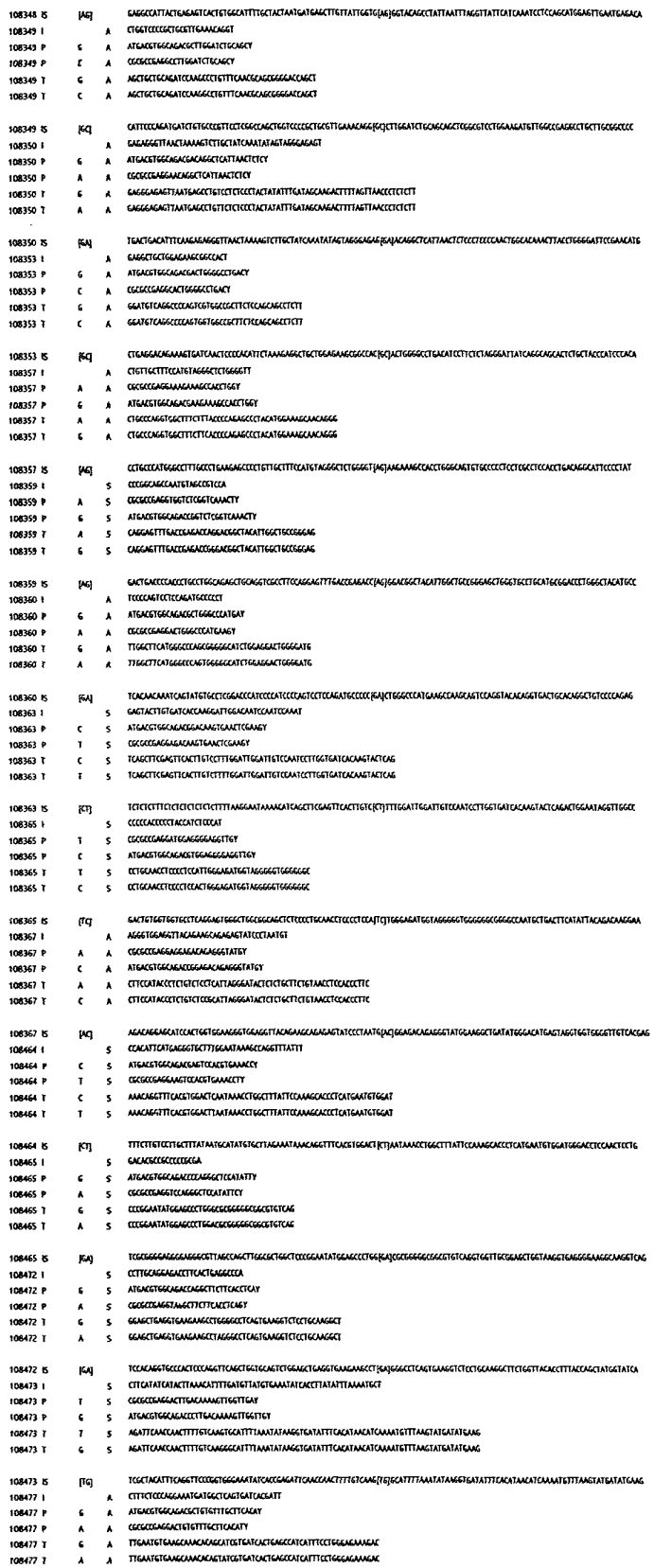

108348 IS [AG] GAGGCCATTACTGAGAGTCACTGTGGCATTTTGCTACTAATGATGAACTTGTTATTGGTG[AG]GGTACAGCCTATTAATTTAGGTTATTCATCAAATCCTCCAGCATGGAGTTGAATGAGACA
108349 I A CTGGTCCCCGCTGCGTTGAAACAGGT
108349 P G A ATGACGTGGCAGACGCTTGGATCTGCAGCY
108349 P C A CGCGCCGAGGCCTTGGATCTGCAGCY
108349 T G A AGCTGCTGCAGATCCAAGCCCTGTTTCAACGCAGCGGGGACCAGCT
108349 T C A AGCTGCTGCAGATCCAAGGCCTGTTTCAACGCAGCGGGGACCAGCT
108349 IS [GC] CATTCCCACATGATCTGTGCCCGTTCCTCGGCCAGCTGGTCCCCGCTGCGTTGAAACAGG[GC]CTTGGATCTGCAGCAGCTGGCGTCCTGGAAGATGTTGGCCCGAGGCCTGCTTGCGGCCCC PP5395
108350 I A GAGAGGCTTAACTAAAAGTCTTGCTATCAAATATAGTAGGCAGAGT
108350 P G A ATGACGTGGCAGACGACAGGCTCATTAACTCTCY
108350 P A A CGCGCCGAGGAACAGGCTCATTAACTCTCY
108350 T G A GAGGCAGAGTTAATGAGCCTGTCCTCTCCCTACTATATTTGATAGCAAGACTTTTAGTTAACCCTCTCTT
108350 T A A GAGGCAGAGTTAATGAGCCTGTTCTCTCCCTACTATATTTGATAGCAAGACTTTTAGTTAACCCTCTCTT
108350 IS [GA] TGACTGACATTTCAAGAGAGGGTTAACTAAAAGTCTTGCTATCAAATATAGTAGGCAGAG[GA]ACAGGCTCATTAACTCTCCCTCCCAACTGGCACAAACTTACCTGGGGATTCCGAACATG
108353 I A GAGGCTGCTGGAGAAGCGGCCACT
108353 P G A ATGACGTGGCAGACGACTGGGGCCTGACY
108353 P C A CGCGCCGAGGCACTGGGGCCTGACY
108353 T G A GGATGTCAGGCCCCAGTCGTGGCCGCTTCTCCCAGCAGCCTCTT
108353 T C A GGATGTCAGGCCCCAGTGGTGGCCGCTTCTCCCAGCAGCCTCTT
108353 IS [GC] CTGAGGACAGAAAGTGATCAACTCCCCACATTCTAAAGAGGCTGCTGGAGAAGCGGCCAC[GC]ACTGGGGCCTGACATCCTTCTCTAGGGATTATCAGGCAGCACTCTGCTACCCATCCCACA
108357 I A CTGTTGCTTTCCATGTAGGGCTCTGGGGTT
108357 P A A CGCGCCGAGGAAGAAAGCCACCTGGY
108357 P G A ATGACGTGGCAGACGAAGAAAGCCACCTGGY
108357 T A A CTGCCCAGGTGGCTTTCTTTACCCCAGAGCCCTACATGGAAAGCAACAGGG
108357 T G A CTGCCCAGGTGGCTTTCTTCACCCCAGAGCCCTACATGGAAAGCAACAGGG
108357 IS [AG] CCTGCCCATGGGCCTTTGCCCTGAAGAGCCCCTGTTGCTTTCCATGTAGGGCTCTGGGGT[AG]AAGAAAGCCACCTGGGCAGTGTGCCCCTCCTGCCTCCCACCTGACAGGCATTCCCCTAT
108359 I S CCCGGCAGCCAATGTAGCCGTCCA
108359 P A S CGCGCCGAGGTGGTCTCGGTCAAACTY
108359 P G S ATGACGTGGCAGACCGGTCTCGGTCAAACTY
108359 T A S CAGGAGTTTGACCGAGACCAGGACGGCTACATTGGCTGCCGGGAG
108359 T G S CAGGAGTTTGACCGAGACCGGGACGGCTACATTGGCTGCCGGGAG
108359 IS [AG] GACTGACCCCACCCTGCCTGGCAGAGCTGCAGGTCGCCTTCCAGGAGTTTGACCCAGACC[AG]GGACGGCTACATTGGCTGCCGGGAGCTGGGTGCCTGCATGCGGACCCTGGGCTACATGCC
108360 I A TCCCCAGTCCTCCCAGATGCCCCCT
108360 P G A ATGACGTGGCAGACGCTGGGCCCATGAT
108360 P A A CGCGCCGAGGACTGGGCCCATGAAGY
108360 T G A TTGGCTTCATGGGCCCAGCGGGGGCATCTGGAAGACTGGGGATG
108360 T A A TTGGCTTCATGGGCCCAGTGGGGGCATCTGGAAGACTGGGGATG
108360 IS [GA] TCACAACAAATCAGTATGTGCCTCGGACCCATCCCCATCCCCAGTCCTCCAGATGCCCCC[GA]CTGGGCCCATGAAGCCAAGCAGTCCAGGTACACAGGTGACTGCACAGGCTGTCCCCAGAG
108363 I S GAGTACTTGTGATCACCAAGGATTGGACAATCCAATCCAAT
108363 P C S ATGACGTGGCAGACGGACAAGTGAACTCGAAGY
108363 P T S CGCGCCGAGGAGACAAGTGAACTCGAAGY
108363 T C S TCAGCTTCGAGTTCACTTGTCCTTTGGATTGGATTGTCCAATCCTTGGTGATCACAAGTACTCAG
108363 T T S TCAGCTTCGAGTTCACTTGTCTTTTGGATTGGATTGTCCAATCCTTGGTGATCACAAGTACTCAG
108363 IS [CT] TCTCTCTTTCTCTCTCTCTCTTTTAAGGAATAAAACATCAGCTTCGAGTTCACTTGTC[CT]TTTGGATTGGATTGTCCAATCCTTGGTGATCACAAGTACTCAGACTGGAATAGGTTGGCC
108365 I S CCCCCACCCCCTACCATCTCCCAT
108365 P T S CGCGCCGAGGATGCAGGGGAGGTTGY
108365 P C S ATGACGTGGCAGACGTGGAGGGAGGTTGY
108365 T T S CCTGCAACCTCCCCTCCACTGGGAGATGGTAGGGGGTGGGGGGC
108365 T C S CCTGCAACCTCCCCTCCACTGGGAGATGGTAGGGGGTGGGGGGC
108365 IS [TC] GACTGTGGTGGTGCCTCAGGAGTGGGCTGCGGCAGCTCTCCCCTGCAACCTCCCCTCCA[TC]TGGGAGATGGTAGGGGGTGGGGGGCGGGGCCAATGCTGACTTCATATTACAGACAAGGAA
108367 I A AGGGTGGAGGTTACAGAAGCAGAGAGTATCCCTAATGT
108367 P A A CGCGCCGAGGAGGAGACAGGGTATGY
108367 P C A ATGACGTGGCAGACGGGAGACAGAGGGTATGY
108367 T A A CTTCCATACCCTCTGTCTCCTCATTAGGGATACTCTCTGCTTCTGTAACCTCCACCCTTC
108367 T C A CTTCCATACCCTCTGTCTCCGCATTAGGGATACTCTCTGCTTCTGTAACCTCCACCCTTC
108367 IS [AC] AGACAGGAGCATCCACTGGTGCAAGGGTGGAGGTTACAGAAGCAGAGAGTATCCCTAATG[AC]GGAGACAGAGGGTATGCAAGGCTGATATGGGACATGAGTAGGTGGTGGGGTTGTCACGAG
108464 I S CCACATTCATGAGGGTGCTTJGGAATAAAGCAGGTTTATTT
108464 P C S ATGACGTGGCAGACGAGTCCACGTGAAACCY
108464 P T S CGCGCCGAGGAAGTCCACGTGAAACCTY
108464 T C S AAACAGGTTTCACGTGGACTCAATAAACCTGGCTTTATTCCAAAGCACCCTCATGAATGTGGAT
108464 T T S AAACAGGTTTCACGTGGACTTAATAAACCTGGCTTTATTCCAAAGCACCCTCATGAATGTGGAT
108464 IS [CT] TTTCTTGTCCTGCTTTATAATGCATATGTGCTTAGAAATAAACAGGTTTCACGTGGACT[CT]AATAAACCTGGCTTTATTCCAAAGCACCCTCATGAATGTGGATGGGACTCCCAACTCCTG
108465 I S GACACGCCGCCCCCGCGA
108465 P G S ATGACGTGGCAGACCCCAGGGCTCCATATTY
108465 P A S CGCGCCGAGGTCCAGGGCTCCATATTCY
108465 T G S CCCGGAATATGGAGCCCTGGACGCGCGGGGCGGCGTGTCAG
108465 T A S CCCGGAATATGGAGCCCTGGACGCGCGGGGCGGCGTGTCAG
108465 IS [GA] TCGCGGGGAGGGCGAGGGCGTTAGCCAGCTTGGCGCTGGCTCCCGGAATATGGAGCCCTGG[GA]CGCGGGGGCGGCGTGTCAGGTGGTTGCGGAGCTGGTAAGGTGAGGGGAAGGCAAGGTCAG
108472 I S CCTTGCAGGAGACCTTCACTGAGGCCCA
108472 P G S ATGACGTGGCAGACCAGGCTCTTCACCTCAY
108472 P A S CGCGCCGAGGTAAGCTCTCTTCACCTCAGY
108472 T G S GGAGCTGAGGTGAAGAAGCCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCT
108472 T A S GGAGCTGAGGTGAAGAAGCCTAGGGCCTCAGTGAAGGTCTCCTGCAAGGCT
108472 IS [GA] TCCACAGGTGCCCACTCCCAGGTTCAGCTGGTGCAGTCTGGAGCTGAGGTGAAGAAGCCT[GA]GGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCTGGTTACACCTTTACCAGCTATGGTATCA
108473 I S CTTCATATCATACTTAAACATTTTGATGTTATGTGAAATATCACCTTATATTTAAAATGCT
108473 P T S CGCGCCGAGGACTTGACAAAAGTTGGTTGAY
108473 P G S ATGACGTGGCAGACCCTTGACAAAAGTTGGTTGY
108473 T T S AGATTCAACCAACTTTTGTCAAGTGCATTTAAATATAAGGTGATATTTCACATAACATCAAAATGTTTAAGTATGATATGAAG
108473 T G S AGATTCAACCAACTTTTGTCAAGGGCATTTAAATATAAGGTGATATTTCACATAACATCAAAATGTTTAAGTATGATATGAAG
108473 IS [TG] TCGCTACATTTCAGGTTCCCGGTGGGAAATATCACCGAGATTCAACCAACTTTTGTCAAG[TG]GCATTTTAAATATAAGGTGATATTTCACATAACATCAAAATGTTTAAGTATGATATGAAG
108477 I A CTTTCTCCCAGGAAATGATGGCTCAGTGATCACGATT
108477 P G A ATGACGTGGCAGACGCTGTGTTTGCTTCACAY
108477 P A A CGCGCCGAGGACTGTGTTTGCTTCACATY
108477 T G A TTGAATGTGAAGCAAACACAGCATCTGGTGATCACTGAGCCATCATTTCCTGGGAGAAAGAC
108477 T A A TTGAATGTGAAGCAAACACAGTATCGTGATCACTGAGCCATCATTTCCTGGGAGAAAGAC

FIGURE 129G

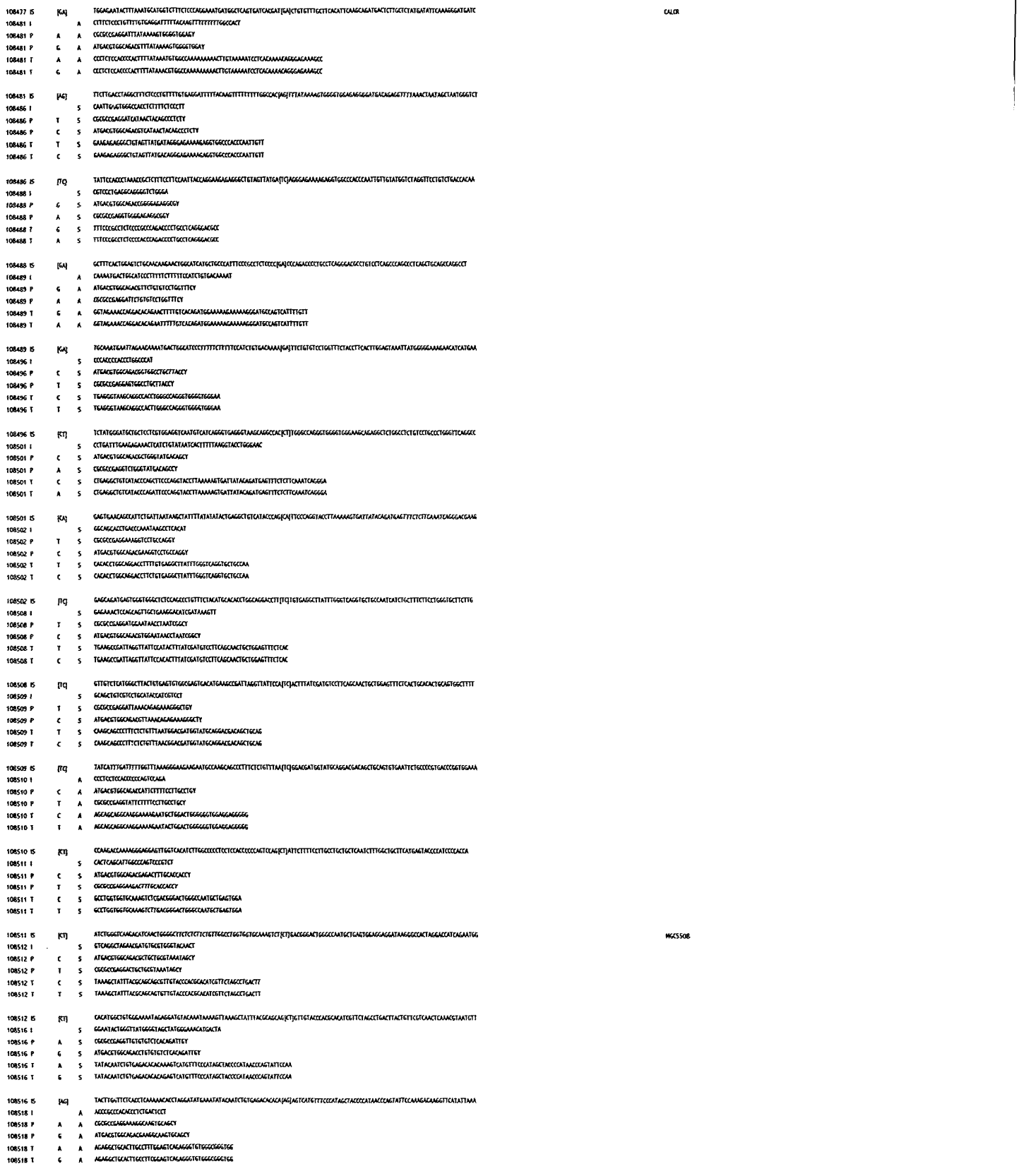
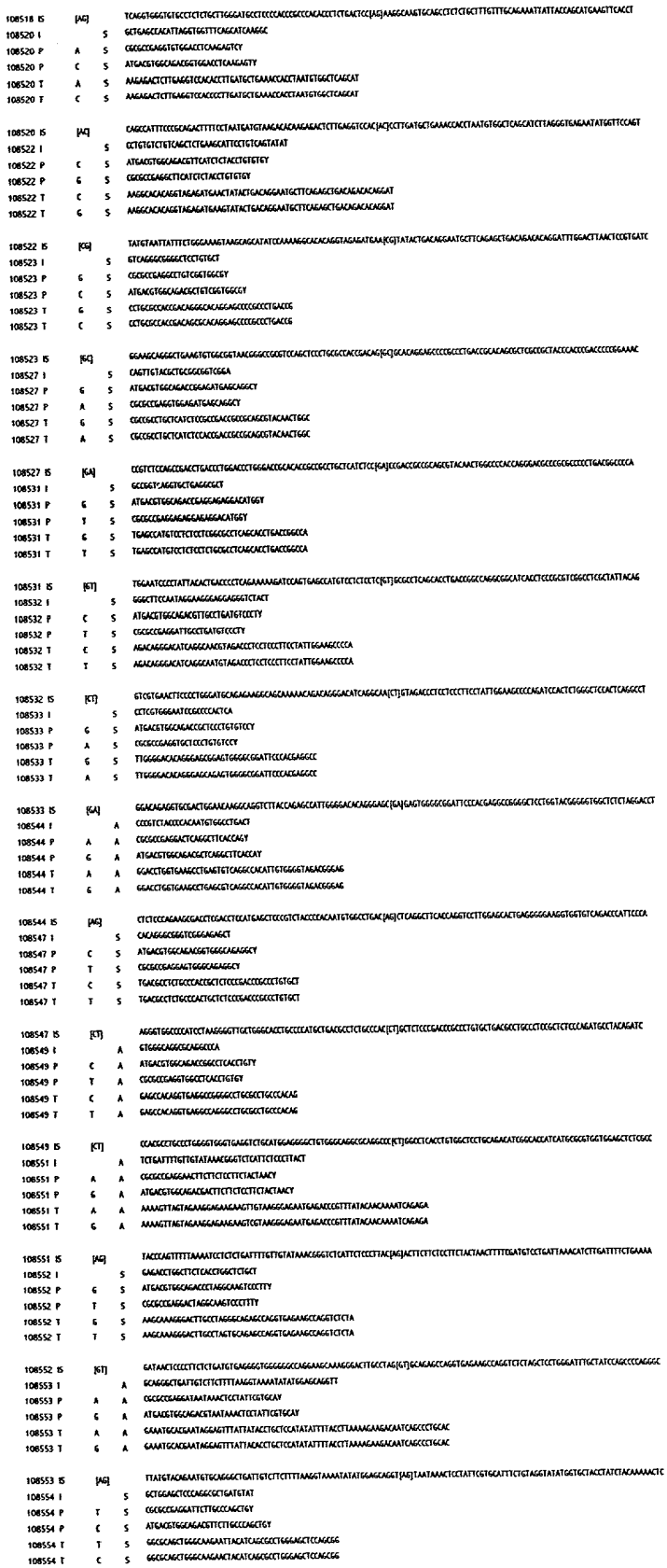


FIGURE 129G


108518 IS [AG] TCAGGTGGGTGTGCCCTCTCTGCTTGGGATGCCTCCCCACCCGCCCACACCCTCTGACTCC[AG]AAGGCAAGTGCAGCCTCTCTGCTTTGTTTGCAGAAATTATTACCAGCATGAAGTTCACCT
108520 I S GCTGAGCCACATTAGGTGGTTTCAGCATCAAGGC
108520 P A S CGGGCCGAGGTGTGGACCTCAAGAGTCY
108520 P C S ATGACGTGGCAGACGGTGGACCTCAAGAGTY
108520 T A S AAGAGACTCTTGAGGTCCACACCTTGATGCTGAAACCACCTAATGTGGCTCAGCAT
108520 T C S AAGAGACTCTTGAGGTCCACCCCTTGATGCTGAAACCACCTAATGTGGCTCAGCAT
108520 IS [AC] CAGCCATTTCCCGCAGACTTTTCCTAATGATGTAAGACACAAGAGACTCTTGAGGTCCAC[AC]CCTTGATGCTGAAACCACCTAATGTGGCTCAGCATCTTAGGGTGAGAATATGGTTCCAGT
108522 I S CCTGTGTCTGTCAGCTCTGAAGCATTCCTGTCAGTATAT
108522 P C S ATGACGTGGCAGACGTTCATCTCTACCTGTGTGY
108522 P G S CGCGCCGAGGCTCATCTCTACCTGTGTGY
108522 T C S AAGGCACACAGGTAGAGATGAACTATACTGACAGGAATGCTTCAGAGCTGACAGACACAGGAT
108522 T G S AAGGCACACAGGTAGAGATGAAGTATACTGACAGGAATGCTTCAGAGCTGACAGACACAGGAT
108522 IS [CG] TATGTAATTATTTCTGGGAAAGTAAGCAGCATATCCAAAAGGCACACAGGTAGAGATGAA[CG]TATACTGACAGGAATGCTTCAGAGCTGACAGACACAGGATTTGGACTTAACTCCGTGATC
108523 I S GTCAGGGCGGGGCTCCTGTGCT
108523 P G S CGCGCCGAGGCCTGTCGGTGGCGY
108523 P C S ATGACGTGGCAGACGCTGTCGGTGGCGY
108523 T G S CCTGCGCCCACCGACAGGCCACAGGAGCCCCGCCCTGACCG
108523 T C S CCTGCGCCCACCGACAGCGCACAGGAGCCCCGCCCTGACCG
108523 IS [GC] GGAAGCAGGGCTGAAGTGTGGCGGTAACGGGCCGGGTCCAGCTCCCTGCGCCACCGACAG[GC]GCACAGGAGACCCCGCCTGACCGACAGCGCTCGCCGCTACCCACCCGACCCCCGGAAAC
108527 I S CAGTTGTACGCTGCGGCGGTCGGA
108527 P G S ATGACGTGGCAGACCGGACATGAGCAGGCT
108527 P A S CGCGCCGAGGTGGAGATGAGCAGGCY
108527 T G S CGCGCGCCTGCTCATCTCCGCCGACCGCCGCGCAGCGTACAACTGGC
108527 T A S CGCCGCCTGCTCATCTCCACCGACCGCCGCAGCGTACAACTGGC
108527 IS [GA] CCGTCTCCAGCCGACCTGACCTGGACCCTGGGACCGCACACCGCCGCCTGCTCATCTCC[GA]CCGACCGCCGCAGCGTACAACTGGCCCCACCAGGGAGCCCCGCGCCCCCTGACGGCCCCA
108531 I S GCCGGTCAGGTGCTGAGGCGCT
108531 P G S ATGACGTGGCAGACCGAGCAGAGGACATGGY
108531 P T S CGCGCCGAGGAGAGGAGAGGACATGGY
108531 T G S TGAGCCATGTCCTCTCCTCGCGCCTCAGCACCTGACCGGCCA
108531 T T S TGAGCCATGTCCTCTCCTCGCGCCTCAGCACCTGACCGGCCA
108531 IS [GT] TGGAATCCCCTATTACACTGACCCCTCAGAAAAAGATCCAGTGAGCCATGTCCTCTCCTC[GT]GCGCCTCAGCACCTGACCGGCCAGGCGGCATCACCTCCCGCGTCGGCCTCGCTATTACAG
108532 I S GGGCTTCCAATAGGAAGGAAGGAGGAGGCTCTACT
108532 P C S ATGACGTGGCAGACGTTGCCTGATGTCCCTY
108532 P T S CGCGCCGAGGATTGCCTGATGTCCCTY
108532 T C S AGACAGGGACATCAGGCAACGTAGACCCTCCTCCCTTCCTATTGGAAGCCCCA
108532 T T S AGACAGGGACATCAGGCAATGTAGACCCTCCTCCCTTCCTATTGGAAGCCCCA
108532 IS [CT] GTCGTGAACTTCCCCTGGGATGCAGAGAAGGCAGCAAAAACAGACAGGCAATCAGGCAA[CT]GTAGACCCTCCTCCCTTCCTATTGGAAGCCCCAGATCCACTCTGGGCTCCACTCAGGCCT
108533 I S CCTCGTGGGAATCCGCCCCACTCA
108533 P G S ATGACGTGGCAGACCGCTCCCTGTGTCCY
108533 P A S CGCGCCGAGGTGCTCCCTGTGTCCY
108533 T G S TTGGGGACACAGGGAGCGGAGTGGGGCGGATTCCCACGAGGCC
108533 T A S TTGGGGACACAGGGAGCAGAGTGGGGCGGATTCCCACGAGGCC
108533 IS [GA] GGACAGAGGTGCCACTGGAAEAAGGCAGGTCTTACCAGAGCCATTGGGGACACAGGGAGC[GA]GAGTGGGGCGGATTCCCACGAGCCGGGGCTCCTGGTACGGGGGTGGCTCTCTAGGACCT
108544 I A CCCGTCTACCCCACAATGTGGCCTGACT
108544 P A A CGCGCCGAGACTCAGGCTTCACCAGY
108544 P G A ATGACGTGGCAGACGCTCAGGCTTCACCAY
108544 T A A GGACCTGGTGAAGCCTGAGTGTCAGGCCACATTGTGGGGTAGACGGGAG
108544 T G A GGACCTGGTGAAGCCTGAGCGTCAGGCCACATTGTGGGGTAGACGGGAG
108544 IS [AG] CTCTCCCAGAAGCGACCTCGACCTCCATGAGCTCCCGTCTACCCCACAATGTGGCCTGAC[AG]CTCAGGCTTCACCAGGTCCTTGGAGCACTGAGGGGGAAGGTGGTGTCAGACCCATTCCCA
108547 I S CACAGGGCGGGTCGGGAGAGCT
108547 P C S ATGACGTGGCAGACGGTGGGCAGAGGCY
108547 P T S CGCGCCGAGGAGTGGGCAGAGGCY
108547 T C S TGACGCCTCTGCCCCACCGCTCTCCCGACCGGCCCTGTGCT
108547 T T S TGACGCCTCTGCCCACTGCTCTCCCGACCGGCCCTGTGCT
108547 IS [CT] AGGGTGGCCCCATCCTAAGGGGTTGCTGGGCACCTGCCCCATGCTGACGCCTCTGCCCAC[CT]GCTCTCCCGACCGCCCTGTGCTGACGCCTGCCCTCCGCTCTCCCAGATGCCTACAGATC
108549 I A GTGGGCAGGCGCAGGCCCA
108549 P C A ATGACGTGGCAGACCGGCCTCACCTGTY
108549 P T A CGCGCCGAGGTGGCCTCACCTGTGY
108549 T C A GAGCCACAGGTGAGGCCGGGCCTGCGCCTGCCCACAG
108549 T T A GAGCCACAGGTGAGGCCAGGCCCTGCGCCTGCCCACAG
108549 IS [CT] CCACGCCTGCCCTGGGGTGGGTGAGGTCTGCATGGAGGGCCTGTGGGCAGGCGCAGGCCC[CT]GGCCTCACCTGTGGCTCCTGCAGACATCGGCACCATCATGCGGCGTGGTGGAGCTCTCGCC
108551 I A TCTGATTTTGTTGTATAAACGGGTCTCATTCTCCCCTTACT
108551 P A A CGCGCCGAGGAACTTCTTCTCCTTCTACTAACY
108551 P G A ATGACGTGGCAGACGACTTCTTCTCCTTCTACTAACY
108551 T A A AAAAGTTAGTAGAAGCAGAAACAAGTTGTAAGGCAGAATGAGACCCGTTTATACACAACAAATCAGAGA
108551 T G A AAAAGTTAGTAGAAGCAGAAAGAAGTCGTAAGGCAGAATGAGACCCGTTTATACACAACAAATCAGAGA
108551 IS [AG] TACCCAGTTTTTAAAATCCTCTCTGATTTTGTTGTATAAACGGGTCTGATTCTCCCTTAC[AG]ACTTCTTCTCCTTCTACTAACTTTTCGATGTCCTGATTAAACATCTTGATTTTCTGAAAA
108552 I S CAGACCTGGCTTCTCACCTGGCTCTGCT
108552 P G S ATGACGTGGCAGACCCTAGGCAAGTCCCTTY
108552 P T S CGCGCCCAGGACTAGGCAAGTCCCTTY
108552 T G S AAGCAAAGGACTTGCCTAGGGCAGAGCCAGGTGAGAAGCCAGGTCTCTA
108552 T T S AAGCAAAGGACTTGCCTAGTGCAGAGCCAGGTGAGAAGCCAGGTCTCTA
108552 IS [GT] GATAACTCCCCTTCTCTGATGTGAGGGGTGGGGGGCCAGGAAGCAAAGGGACTTGCCTAG[GT]GCAGAGCCAGGTGAGAAGCCAGGTCTCTAGCTCCTGGGATTTGCTATCCAGCCCCAGGGC
108553 I A GCAGGGCTGATTGTCTTCTTTTAAGGTAAAATATATGGAGCAGGTT
108553 P A A CGCGCCCAGGATAATAAACTCCTATTCGTGCAY
108553 P G A ATGACGTGGCAGACGTAATAAACTCCTATTCGTGCAY
108553 T A A GAAATGCACGAATAGGAGTTTATTATACCTGCTCCATATATTTTACCTTAAAAGAAGACAATCAGCCCTGCAC
108553 T G A GAAATGCACGAATAGGAGTTTATTACACCTGCTCCATATATTTTACCTTAAAAGAAGACAATCAGCCCTGCAC
108553 IS [AG] TTATGTACAGAATGTGCAGGGCTGATTGTCTTCTTTTAAGGTAAAATATATGGAGCAGGT[AG]TAATAAACTCCTATTCGTGCATTTCTGTAGGTATATGGTGCTACCTATCTACAAAAACTC
108554 I S GCTGGAGCTCCCAGGCGCTGATGTAT
108554 P T S CGCGCCCAGGATTCTTGCCCAGCTGY
108554 P C S ATGACGTGGCAGACGTTCTTGCCCAGCTGY
108554 T T S GGCGCAGCTGGGCAAGAATTACATCAGCGCCTGGGAGCTCCAGCGG
108554 T C S GGCGCAGCTGGGCAAGAACTACATCAGCGCCTGGGAGCTCCAGCGG

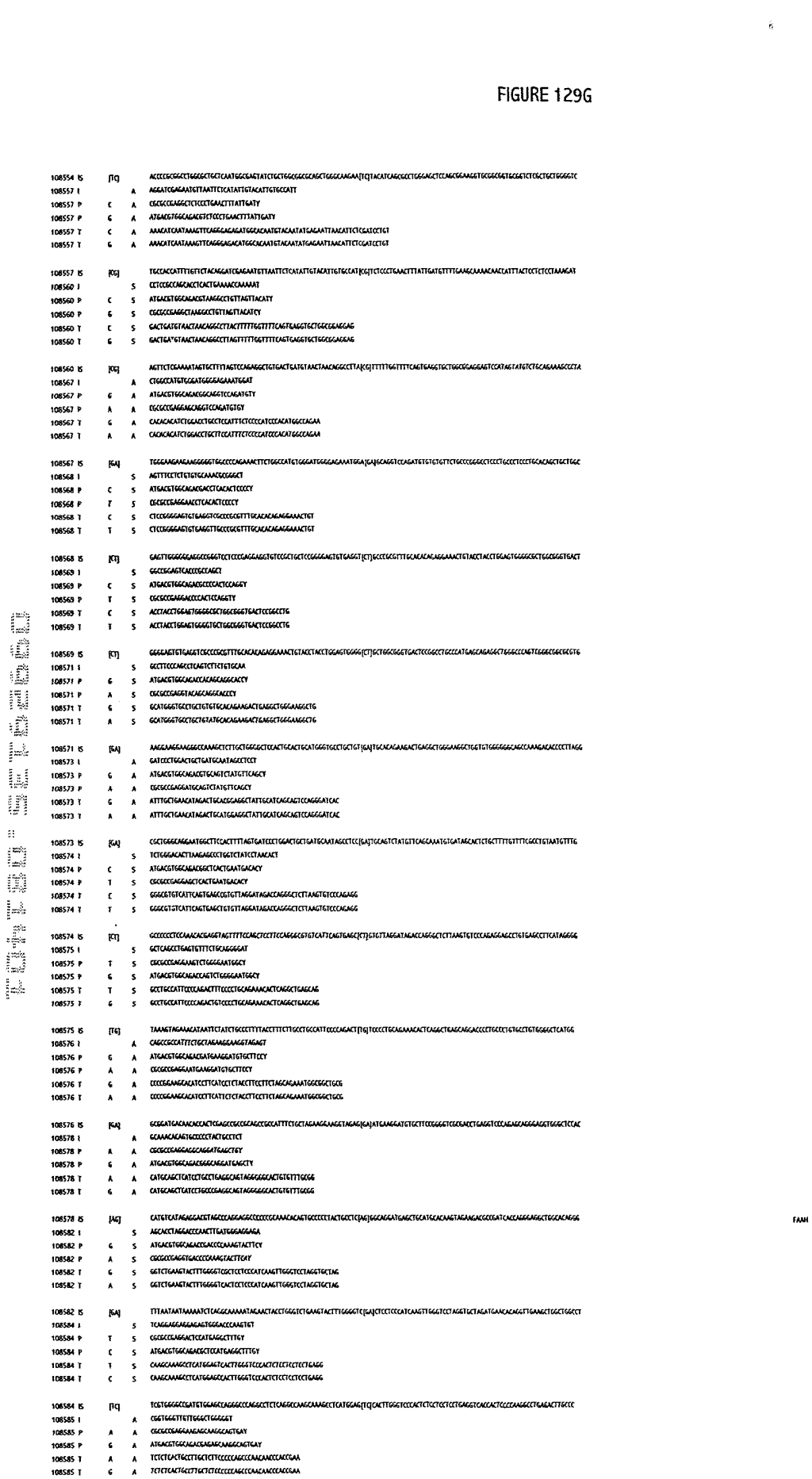
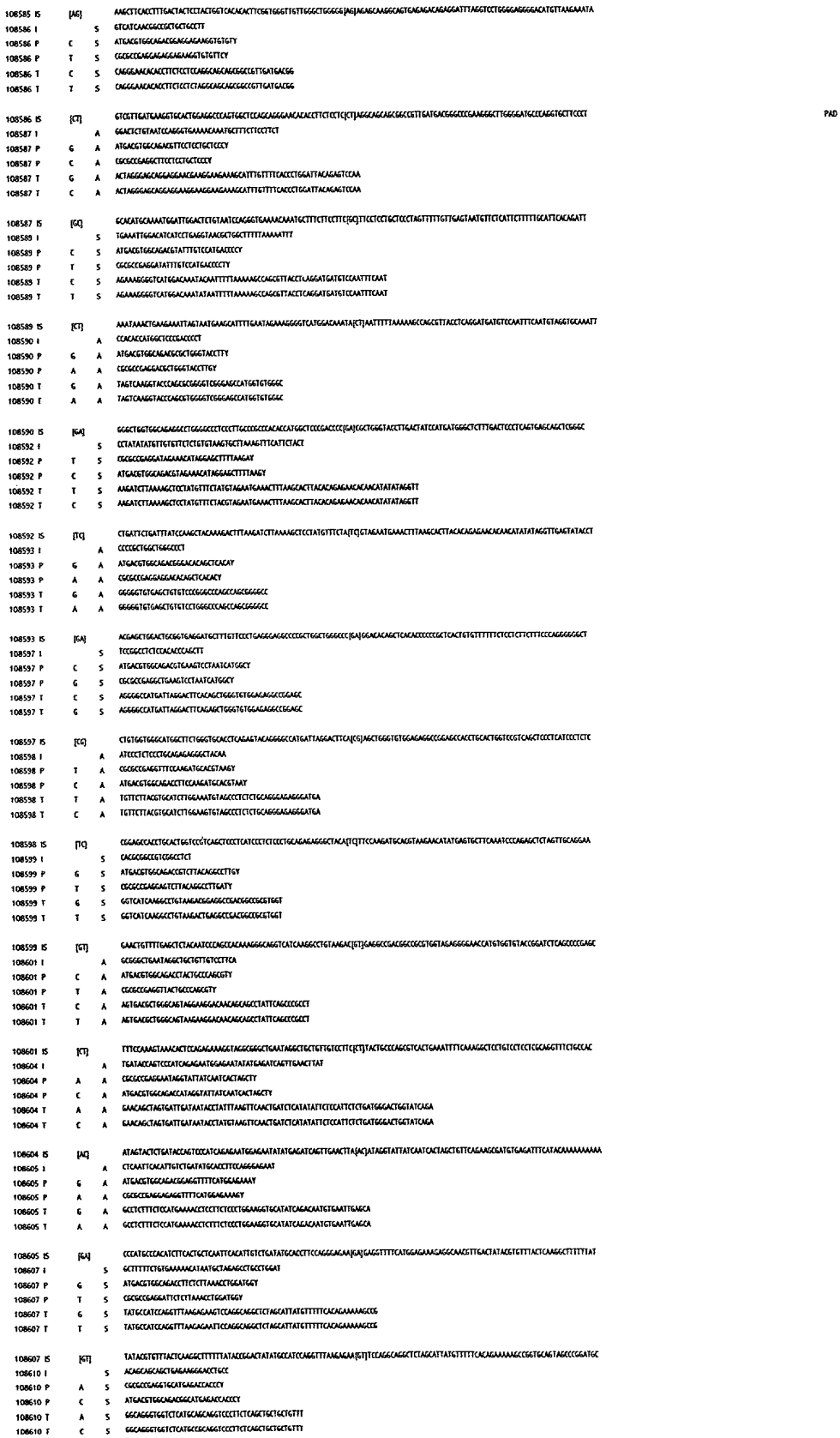
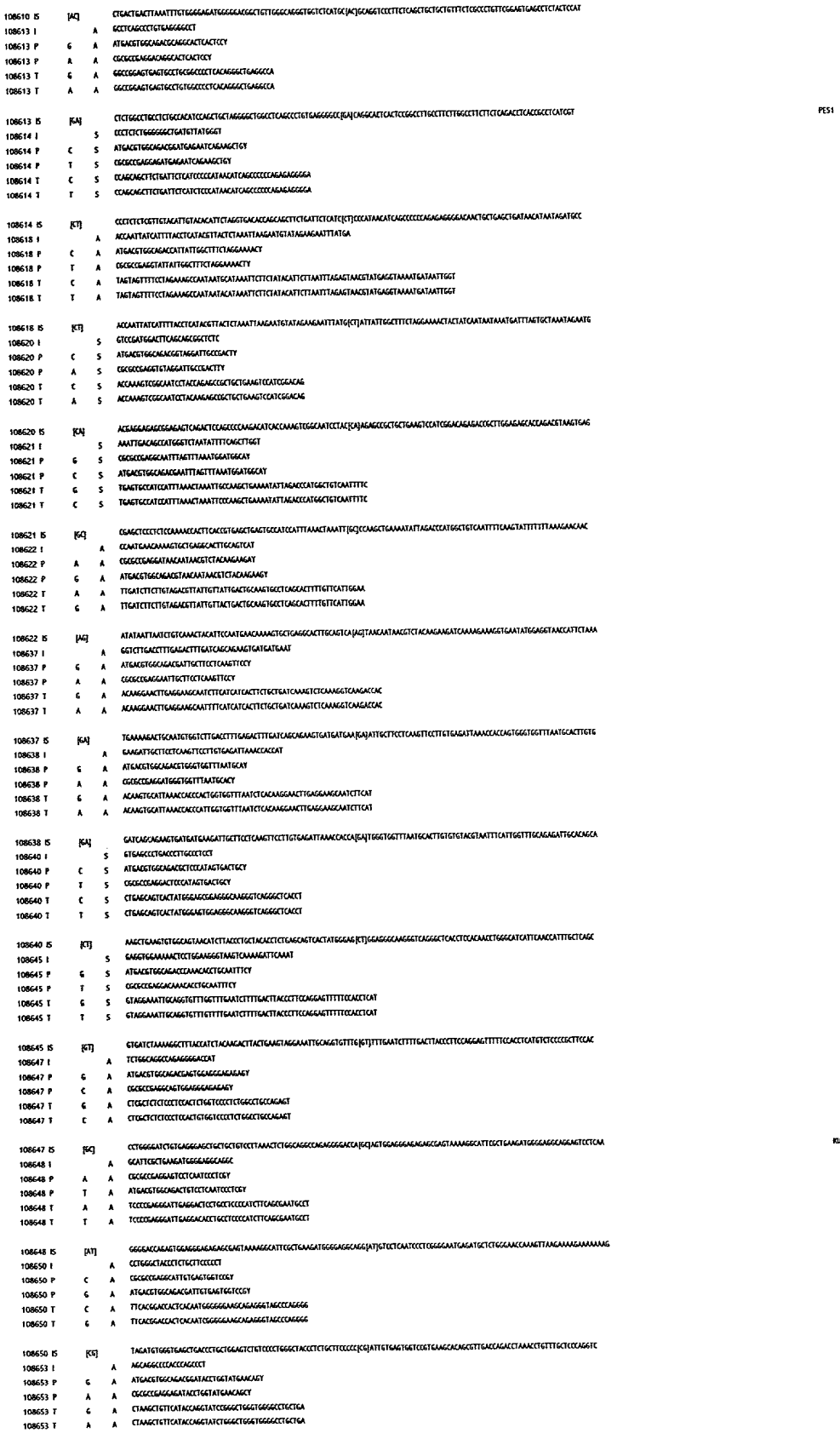


FIGURE 129G



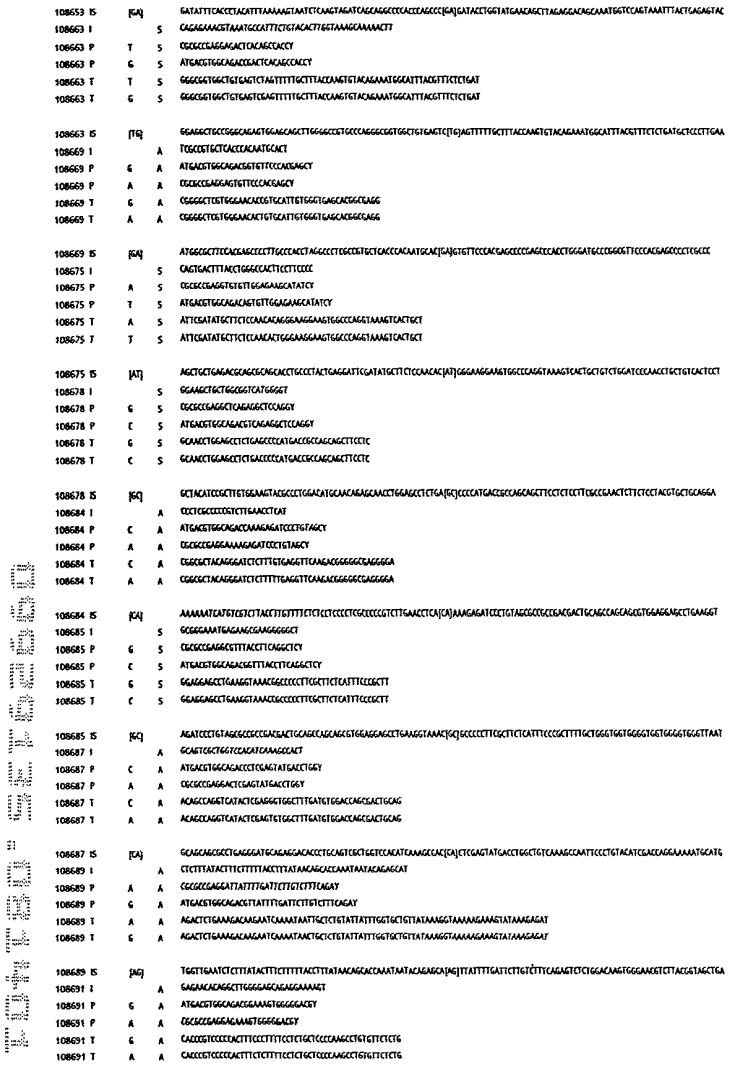
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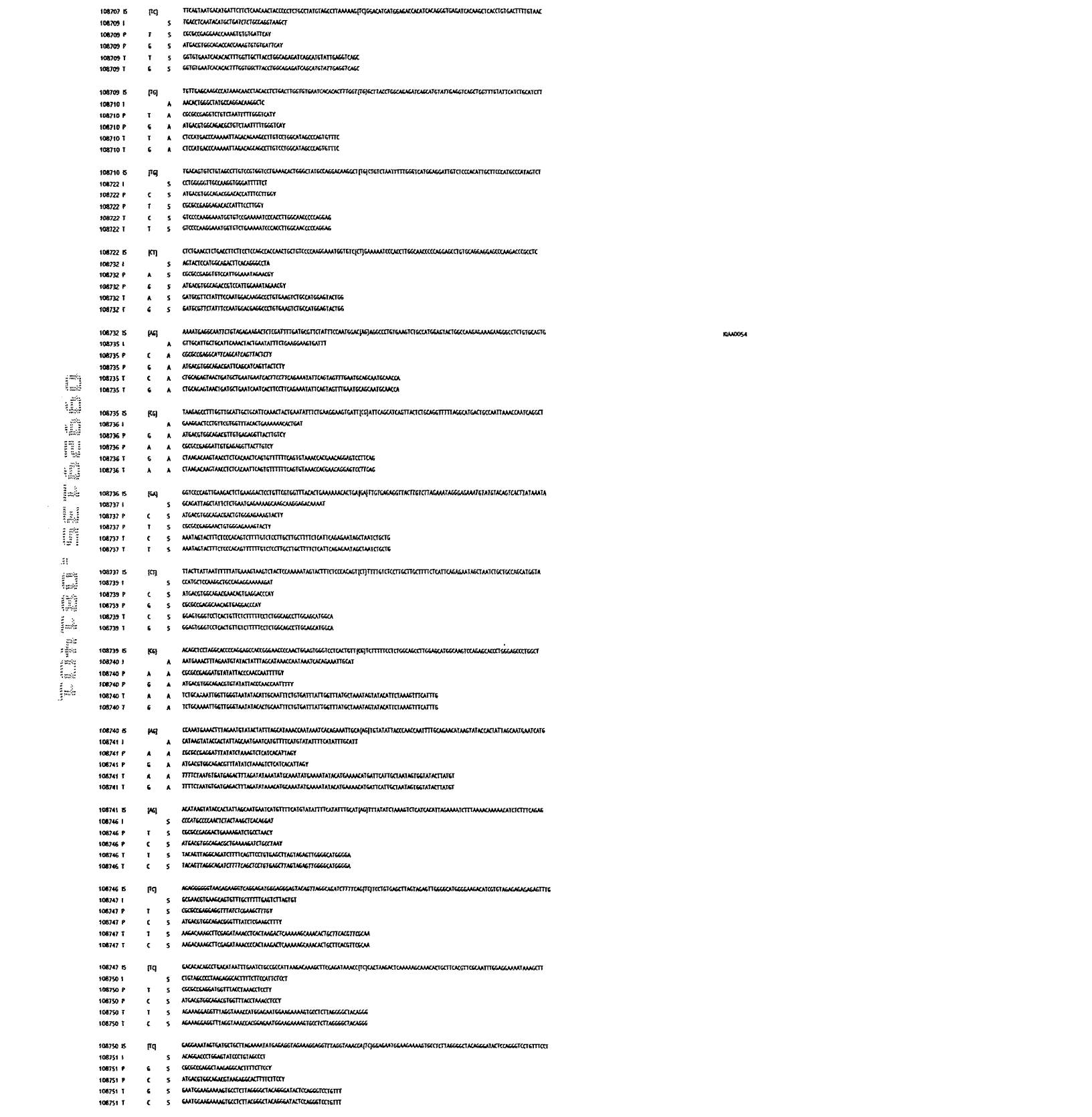
FIGURE 129G



SEQUENCE LISTING

FIGURE 129G




108707 IS [TC] TTCAGTAATGACATGATTCTTCTCAACAACTACCCCCTCTGCCTATGTAGCCTAAAAAG[TC]GGACATGATGGAGAECACATCACAGGGTGAGATCACAAGCTCACCTGTGACTTTTGTAAC
108709 I S TGACCTCAATACATGCTGATCTCTGCCAGGTAAGCT
108709 P T S CGCGCCGAGGAACCAAAGTGTGTGATTCAY
108709 P G S ATGACGTGGCAGACACACAAAGTGTGTGATTCAY
108709 T T S GGTGTGAATCACACACTTTGGTTGCTTACCTGGCAGAGATCAGCATGTATTGAGGTCAGC
108709 T G S GGTGTGAATCACACACTTTGGTGGCTTACCTGGCAGAGATCAGCATGTATTGAGGTCAGC

108709 IS [TG] TGTTGAGCAAGCCCATAAAACAACCTACACCTCTGACTTGGTGTGTGAATCACACACTTTGGT[TG]GCTTACCTGGCAGAGATCAGCATGTATTGAGGTCAGCTGGTTTGTATTCATCTGCATCTT
108710 I A AACACTGGGCTATGCCAGGACAAGGCTC
108710 P T A CGCGCCGAGGTCTGTCTAATTTTTGGGTCATY
108710 P G A ATGACGTGGCAGACGCTGTCTAATTTTTGGGTCAY
108710 T T A CTCCATGACCCAAAAATTAGACAGAAGCCTTGTCCTGGCATAGCCCAGTGTTTC
108710 T G A CTCCATGACCCAAAAATTAGACAGCAGCCTTGTCCTGGCATAGCCCAGTGTTTC

108710 IS [TG] TGACAGTGTCTGTAGCCTTGTCCGTGGTCCTGAAACACTGGGCTATGCCAGGACAAGGCT[TG]CTGTCTAATTTTTGGGTCATGGAGGATTGTCTCCCACATTGCTTCCCATGCCCATAGTCT
108722 I S CCTGGGGGTTGCCAAGGTGGGATTTTTCT
108722 P C S ATGACGTGGCAGACGGAACACATTTCCTTGGY
108722 P T S CGCGCCGAGGAGACACCATTTCCTTGGY
108722 T C S GTCCCCAAGGAAATGGTGTCCGAAAAATCCCACCTTGGCAACCCCCAGGAG
108722 T T S GTCCCCAAGGAAATGGTGTCTGAAAAATCCCCACCTTGGCAACCCCCAGGAG

108722 IS [CT] CTCTGAACCCTCTGACCTTCTTCCTCCAGCCACCAACTGCTGTCCCCAAGGAAATGGTGTC[CT]GAAAAATCCCACCTTGGCAACCCCCAGGAGCCTGTGCAGGAGGAGCCCAAGACCCGCCTC
108732 I S AGTACTCCATGGCAGACTTCACAGGGCCTA
108732 P A S CGCGCCGAGGTGTCCATTGGAAATAGAACGY
108732 P G S ATGACGTGGCAGACCGTCCATTGGAAATAGAACGY
108732 T A S GATGGGTTCTATTTCCAATGGACAAGGCCCTGTGAAGTCTGCCATGGAGTACTGG
108732 T G S GATGCGTTCTATTTCCAATGGACGAGGCCCTGTGAAGTCTGCCATGGAGTACTGG

108732 IS [AG] AAAATGAGGCAATTCTGTAGAGAAGACTCTCGATTTTGATGCGTTCTATTTCCAATGGAC[AG]AGGCCCTGTGAAGTCTGCCATGGACTACTGGCCAAGAGAAAGAAGGGCCTCTGTGCAGTG KIAA0054
108735 I A GTTGCATTGCTGCATTCAAACTACTGAATATTTCTGAAGGAAGTGATTT
108735 P C A CGCGCCGAGGCATTCAGCATCAGTTACTCTY
108735 P G A ATGACGTGGCAGACGATTCAGCATCAGTTACTCTY
108735 T C A CTGCAGAGTAACTGATGCTGAATCAATCACTTCCTTCAGAAATATTCAGTAGTTTGAATGCAGCAATGCAACCA
108735 T G A CTGCAGAGTAACTGATGCTGAATCAATCACTTCCTTCAGAAATATTCAGTAGTTTGAATGCAGCAATGCAACCA

108735 IS [CG] TAAGAGCCTTTGGTTGCATTGCTGCATTCAAACTACTGAATATTTCTGAAGGAAGTGATT[CG]ATTCAGCATCAGTTACTCTGCAGGTTTTTAGGCATGACTGCCAATTAAACCAATCAGGCT
108736 I A GAAGGACTCCTGTTCGTGGTTTACACTGAAAAAACACTGAT
108736 P G A ATGACGTGGCAGACGTTGTGAGAGGTTACTTGTCY
108736 P A A CGCGCCGAGGATTGTGAGAGGTTACTTGTCY
108736 T G A CTAACACAAGTAACCTCTCACAACTCAGTGTTTTTTCAGTGTAAACCACGAACAGGAGTCCTTCAG
108736 T A A CTAACACAAGTAACCTCTCACAATTCAGTGTTTTTTCAGTGTAAACCACGAACAGGAGTCCTTCAG

108736 IS [GA] GGTCCCCAGTTGAAGACTCTGAAGGACTCCTGTTCGTGGTTTACACTGAAAAAACACTGA[GA]TTGTCAGGAGGTTACTTGTCTTAGAAATAGGGAGAAATGTATGTACAGTCACTTATAAATA
108737 I S GCAGATTAGCTATTCTCTGAATGAGAAAAGCAAGCAAGGAGACAAAAT
108737 P C S ATGACGTGGCAGACGACTGTGGGAGAAAGTACTY
108737 P T S CGCGCCGAGGAACTGTGGGAGAAAGTACTY
108737 T C S AAATAGTACTTTCTCCCACAGTCTTTTGTCTCCTTGCTTGCTTTTCTCATTCAGAGAATAGCTAATCTGCTG
108737 T T S AAATAGTACTTTCTCCCACAGTTTTTTGTCTCCTTGCTTGCTTTTCTCATTCAGAGAATAGCTAATCTGCTG

108737 IS [CT] TTACTTATTAATTTTTTATGAAAGTAAGTCTACTCCAAAAATAGTACTTTCTCCCACAGT[CT]TTTGTCTCCTTGCTTGCTTTTCTCATTCAGAGAATAGCTAATCTGCTGCCAGCATGGTA
108739 I S CCATGCTCCAAAGCTGCCAGAGGAAAAAGAT
108739 P C S ATGACGTGGCAGACGAACAGTGAGGACCCAY
108739 P G S CGCGCCGAGGCAACAGTGAGGACCCAY
108739 T C S GGAGTGGGTCCTCACTGTTCTCTTTTTCCTCTGGCAGCCTTGGAGCATGGCA
108739 T G S GGAGTGGGTCCTCACTGTTCTCTTTTTCCTCTGGCAGCCTTGGAGCATGGCA

108739 IS [CG] ACAGCTCCTAGGCACCCCAGAGCCACCGGAACCCCAACTGGAGTGGGTCCTCACTGTT[CG]TCTTTTTCCTCTGGCAGCCTTGGAGCATGGCAAGTCCAGAGCAGCCCTGGGAGCCCTGGCT
108740 I A AATGAAACTTTAGAATGTATACTATTTAGCATAAACCAATAAATCACAGAAATTGCAT
108740 P A A CGCGCCGAGGATGTATATTACCCAACCAATTTTGY
108740 P G A ATGACGTGGCAGACGTGTATATTACCCAACCAATTTTY
108740 T A A TCTGCAZAATTGGTTGGGTAATATACATTGCAATTTCTGTGATTTATTGGTTTATGCTAAATAGTATACATTCTAAAGTTTCATTTG
108740 T G A TCTGCAAAATTGGTTGGGTAATATACACTGCAATTTCTGTGATTTATTGGTTTATGCTAAATAGTATACATTCTAAAGTTTCATTTG

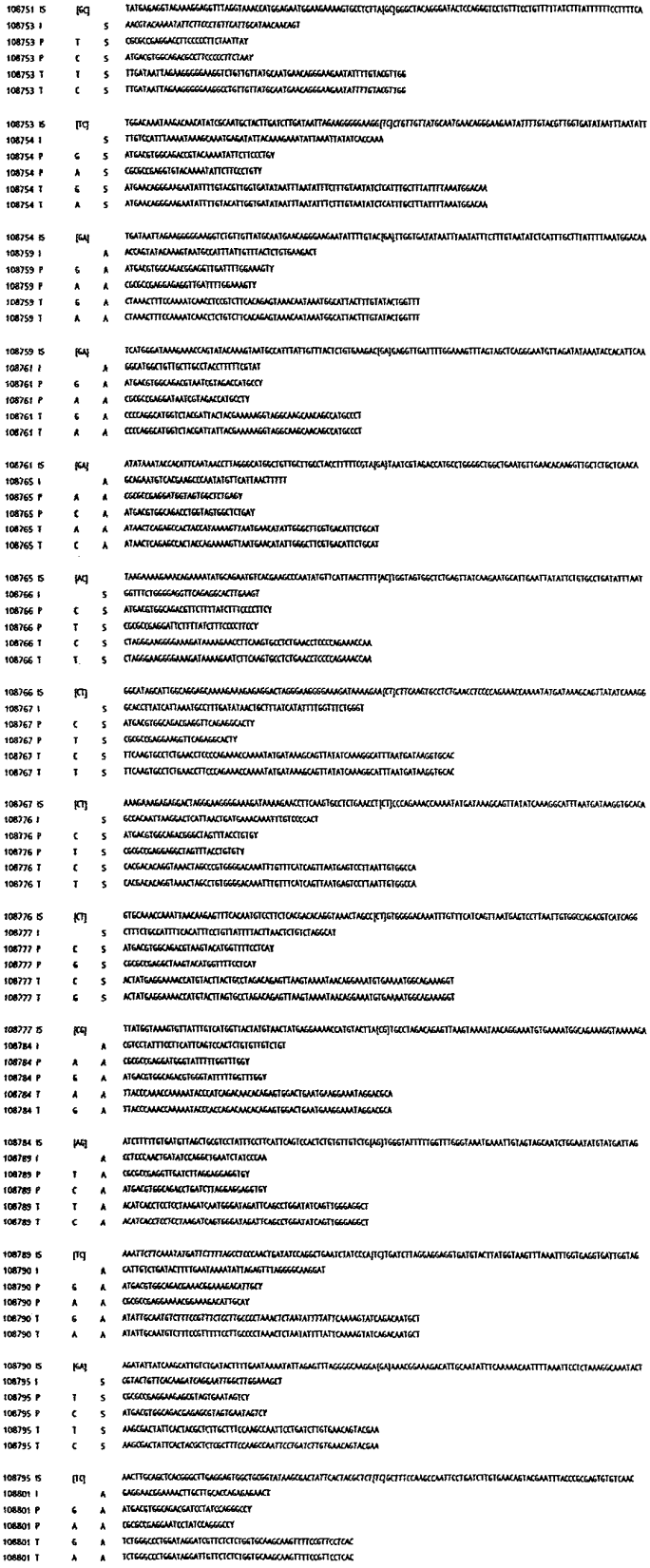
108740 IS [AG] CCAAATGAAACTTTAGAATGTATACTATTTAGCATAAACCAATAAATCACAGAAATTGCA[AG]TGTATATTACCCAACCAATTTTGCAGAACATAAGTATACCACTATTAGCAATGAATCATG
108741 I A CATAAGTATACCACTATTAGCAATGAATCATGTTTTCATGTATATTTTCATATTTGCATT
108741 P A A CGCGCCGAGGATTTATATCTAAGTCTCATCACATTAGY
108741 P G A ATGACGTGGCAGACGTTTATATCTAAGTCTCATCACATTAGY
108741 T A A TTTTCTAAFGTGATGAGACTTTAGATATAAATATGCAAATATGAAAATATACATGAAAACATGATTCATTGCTAATAGTGGTATACTTATGT
108741 T G A TTTTCTAATGTGATGAGACTTTAGATATAAACATGCAAATATCAAAATATACATGAAAACATGATTCATTGCTAATAGTGGTATACTTATGT

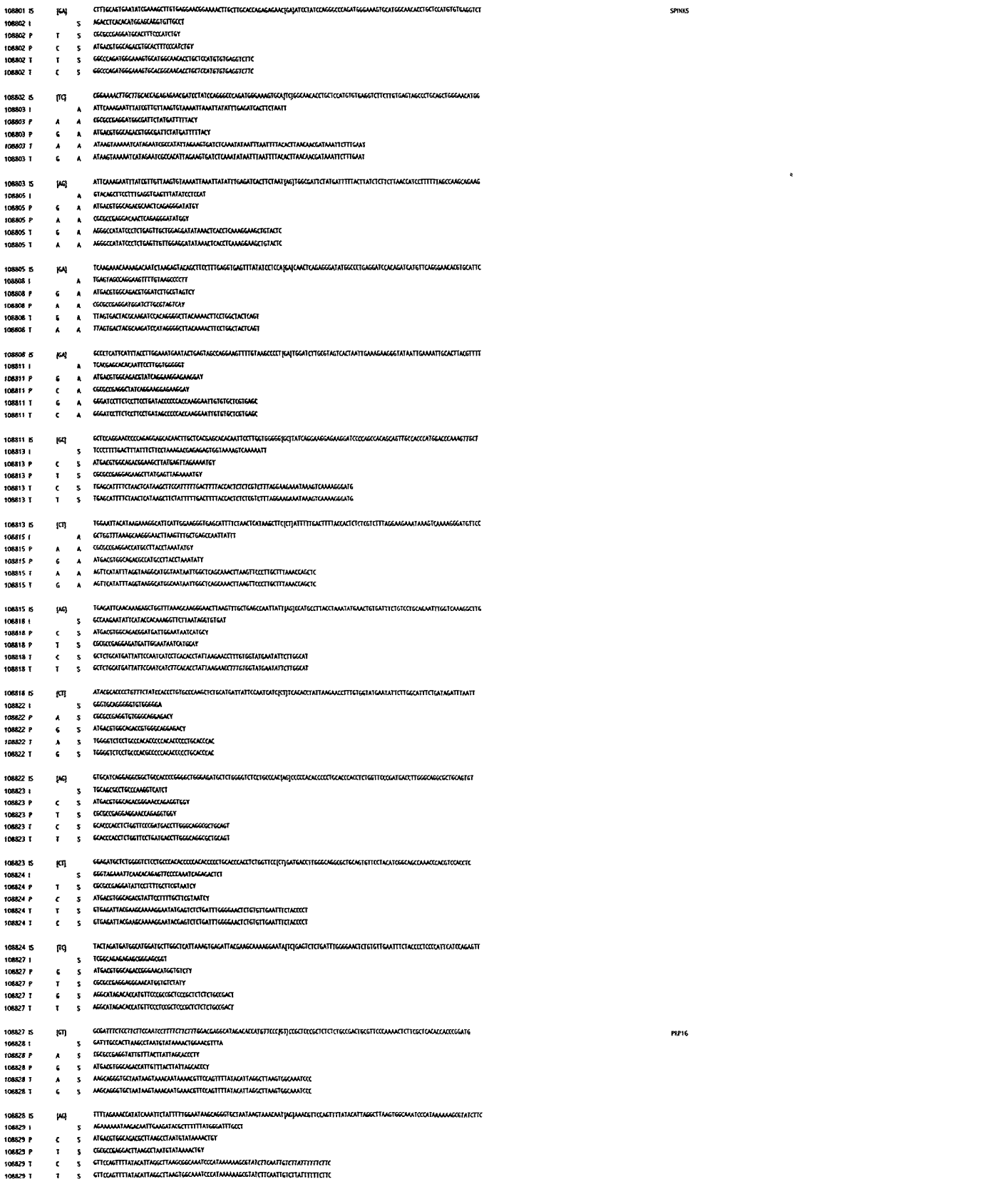
108741 IS [AG] ACATAAGTATACCACTATTAGCAATGAATCATGTTTTCATGTATATTTTCATATTTGCAT[AG]TTTATATCTAAAGTCTCATCACATTAGAAAATCTTTAAAACAAAAACATCTCTTTCAGAG
108746 I S CCCATGCCCCAACTCTACTAAGCTCACAGGAT
108746 P T S CGCGCCGAGGACTGAAAAGATCTGCCTAACY
108746 P C S ATGACGTGGCAGACGCTGAAAAGATCTGCCTAAY
108746 T T S TACAGTTAGGCAGATCTTTTCAGTCCTGTGAGCTTAGTAGAGTTGGGGCATGGGGA
108746 T C S TACAGTTAGGCAGATCTTTTCAGCTCCTGTGAGCTTAGTAGAGTTGGGGCATGGGGA

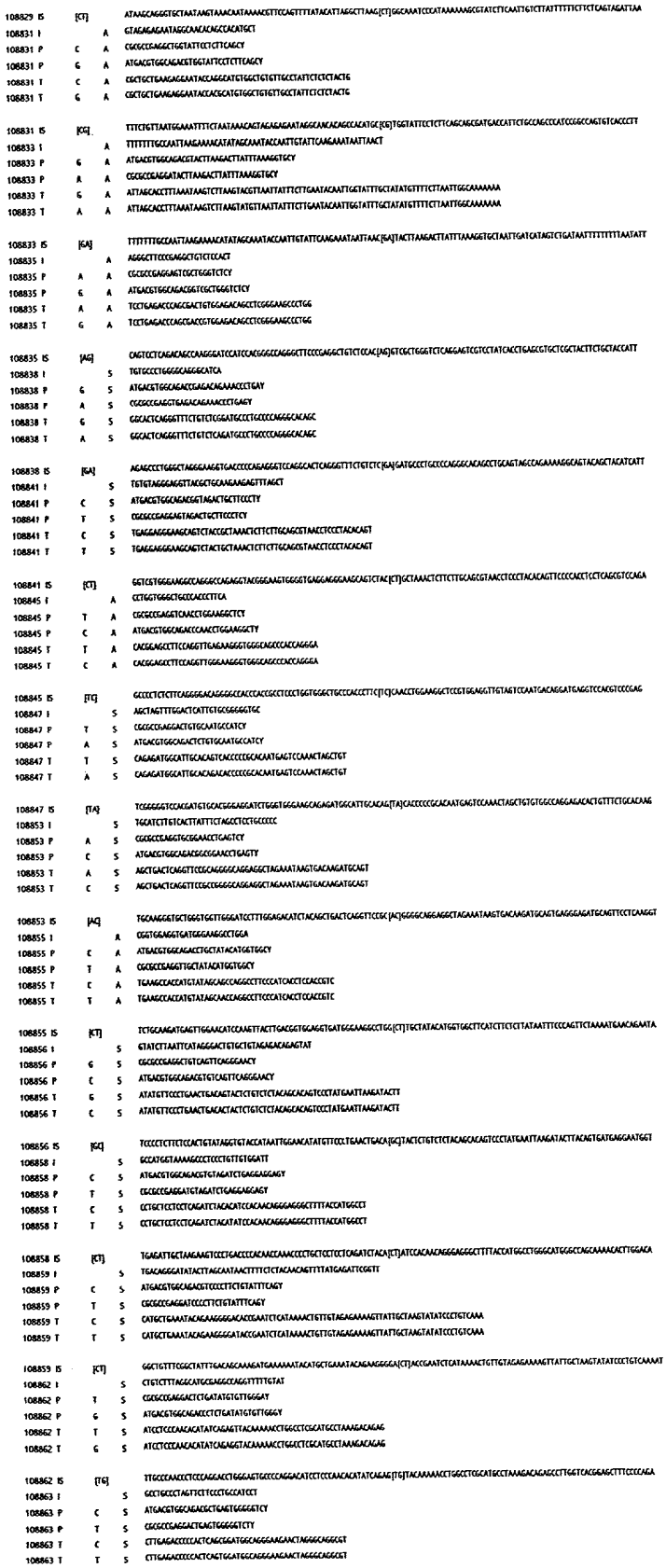
108746 IS [TC] AGAGGGGGGTAACAGAAGGTCAGGAGATGGGAGGGAGTACAGTTAGGCAGATCTTTTCAG[TC]TCCTGTGAGCTTAGTAGAGTTGGGGCATGGGGAAGACATCGTGTAGACAGACAGAGTTTG
108747 I S GCGAACGTGAAGCAGTGTTTGCTTTTTGAGTCTTAGTGT
108747 P T S CGCGCCGAGGAGGTTTATCTCGAAGCTTGY
108747 P C S ATGACGTGGCAGACGGGTTTATCTCGAAGCTTTY
108747 T T S AAGACAAAGCTTCGAGATAAACCTCACTAAGACTCAAAAAGCAAACACTGCTTCACGTTCGCAA
108747 T C S AAGACAAAGCTTCGAGATAAACCCACTAAGACTCAAAAAGCAAACACTGCTTCACGTTCGCAA

108747 IS [TC] GACACACAGCCTGACATAATTTGAATCTGCCGCCATTAAGACAAAGCTTCGAGATAAACC[TC]CACTAAGACTCAAAAAGCAAACACTGCTTCACGTTCGCAATTTGGAGGAAAATAAAGCTT
108750 I S CTGTAGCCCCTAAGAGGCACTTTTCTTCCATTCTCCT
108750 P T S CGCGCCGAGGATGGTTTACCTAAAGCTCCTY
108750 P C S ATGACGTGGCAGACGTGGTTTACCTAAAGCTCCT
108750 T T S AGAAAGGAGGTTTAGGTAAACCATGGAGAATGGAAGAAAAAGTGCCTCTTAGGGGCTACAGGG
108750 T C S AGAAAGGAGGTTTAGGTAAACCACGGAGAATGGAAGAAAAAGTGCCTCTTAGGGGCTACAGGG

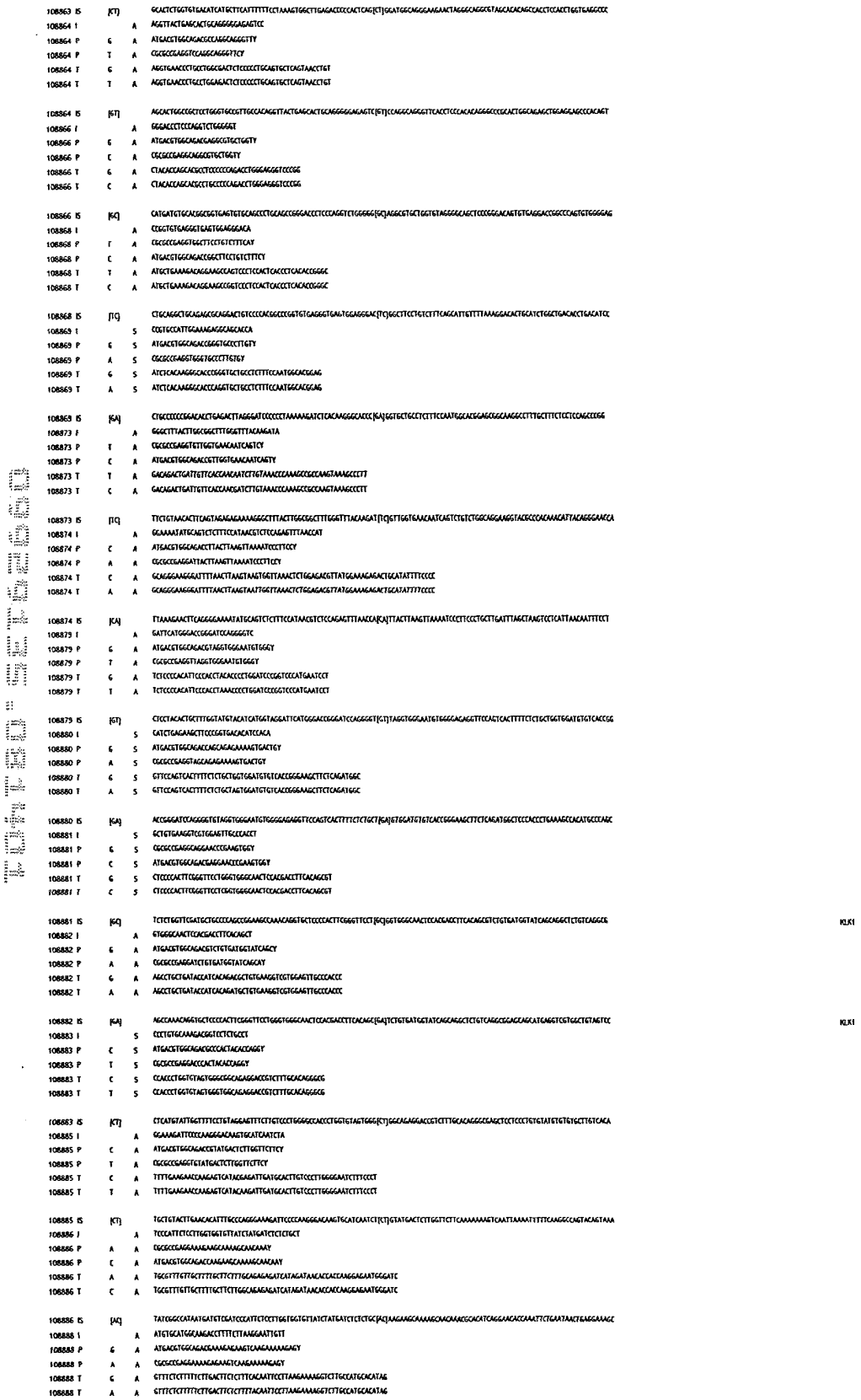
108750 IS [TC] GAGGAAATAGTGATGCTGCTTAGAAAATATGAGAGGTAGAAAGGAGGTTTAGGTAAACCA[TC]GGAGAATGGAAGAAAAAGTGCCTCTTAGGGGCTACAGGGATACTCCAGGGTCCTGTTTCCT
108751 I S ACAGACCCTGGAGTATCCCTGTAGCCCT
108751 P G S CGCGCCGAGGCTAAGAGGCACTTTTCTTCCY
108751 P C S ATGACGTGGCAGAGTAAGAGGCACTTTTCTTCCY
108751 T G S GAATGGAAGAAAAGTGCCTCTTAGGGGCTACAGGGATACTCCAGGGTCCTGTTT
108751 T C S GAATGGAAGAAAAGTGCCTCTTACGGGCTACAGGGATACTCCAGGGTCCTGTTT

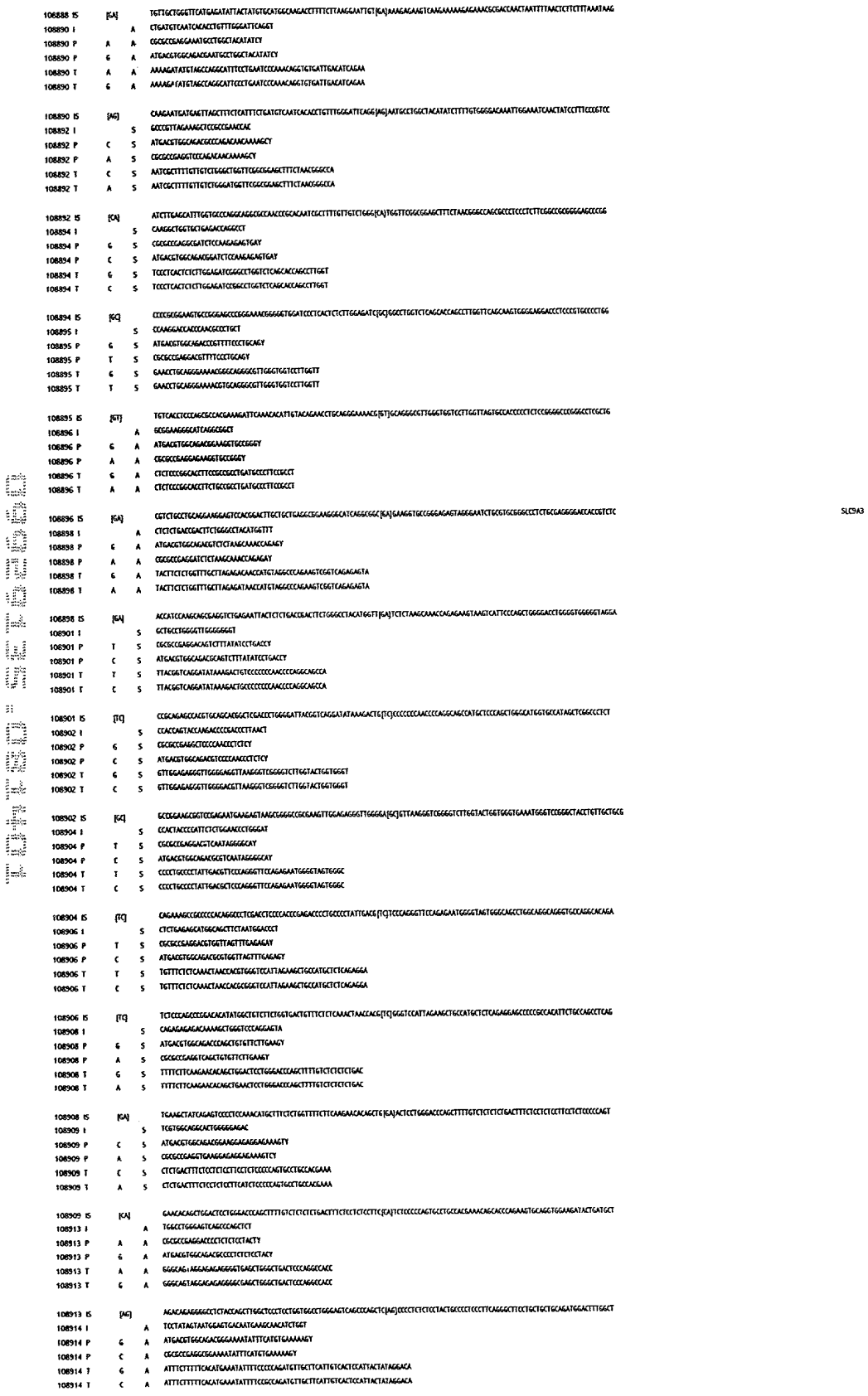



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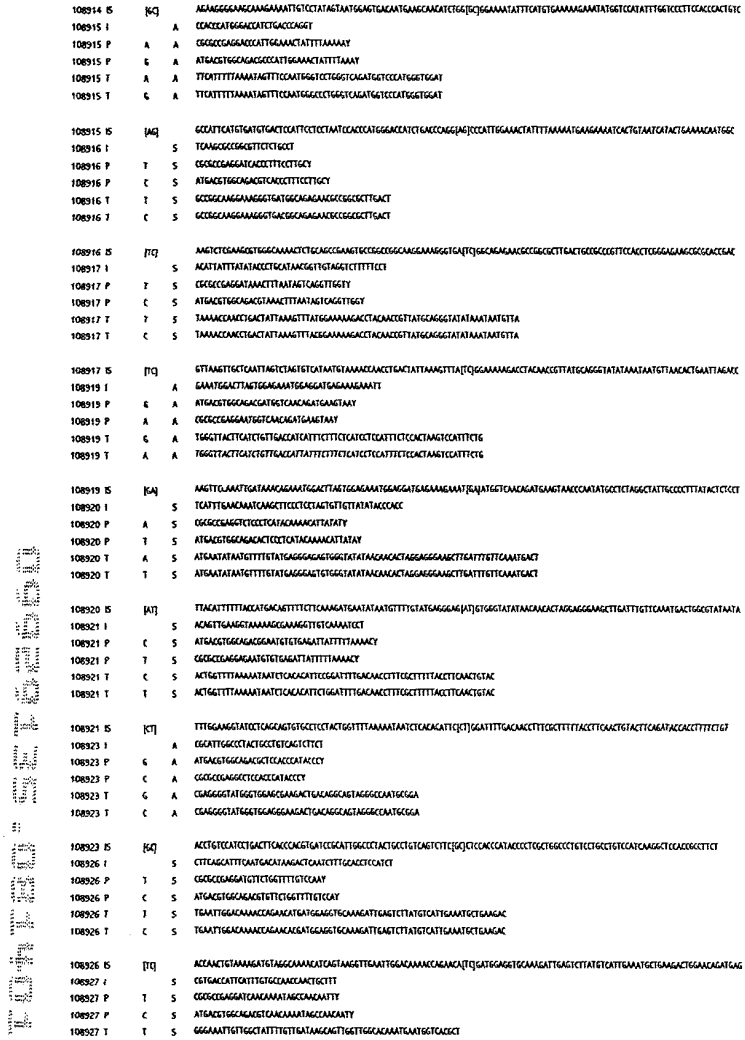
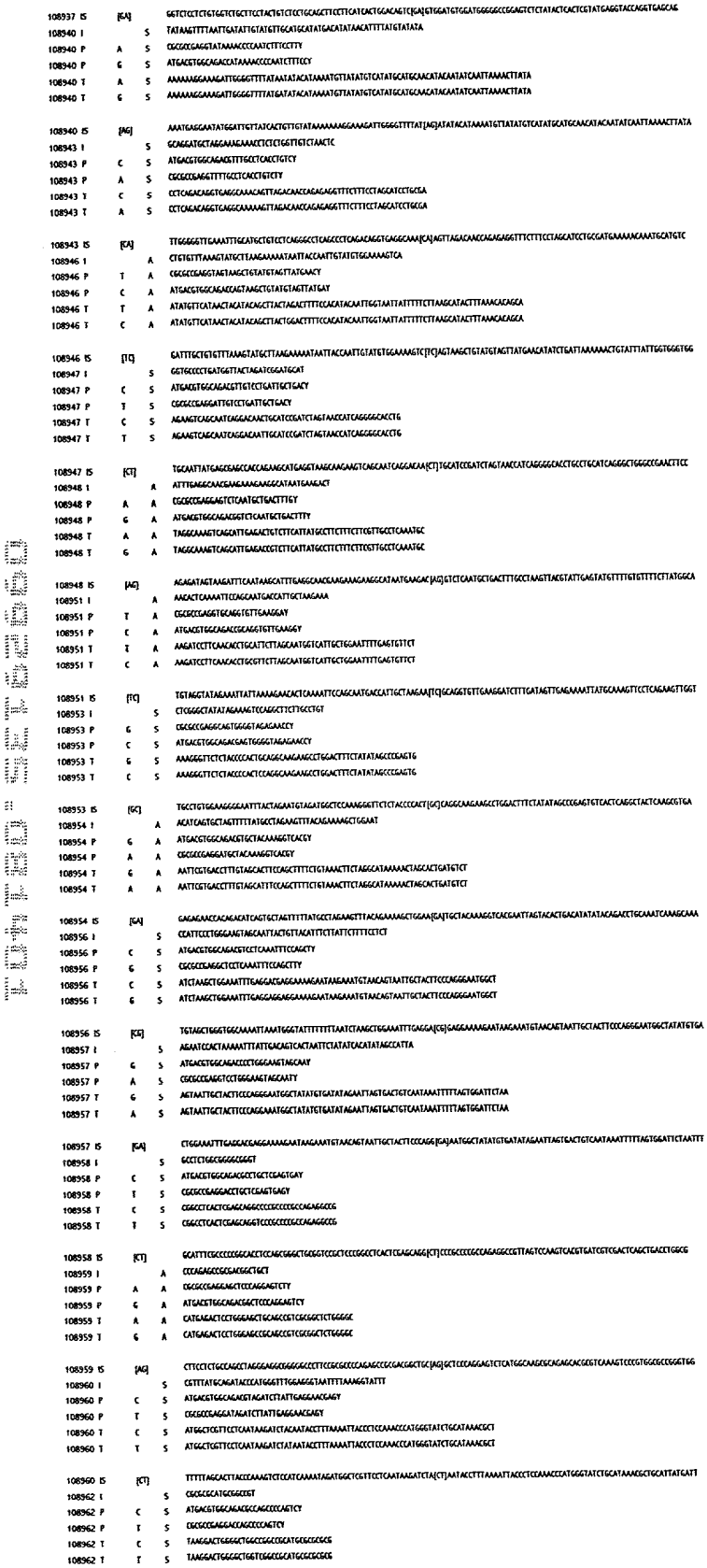
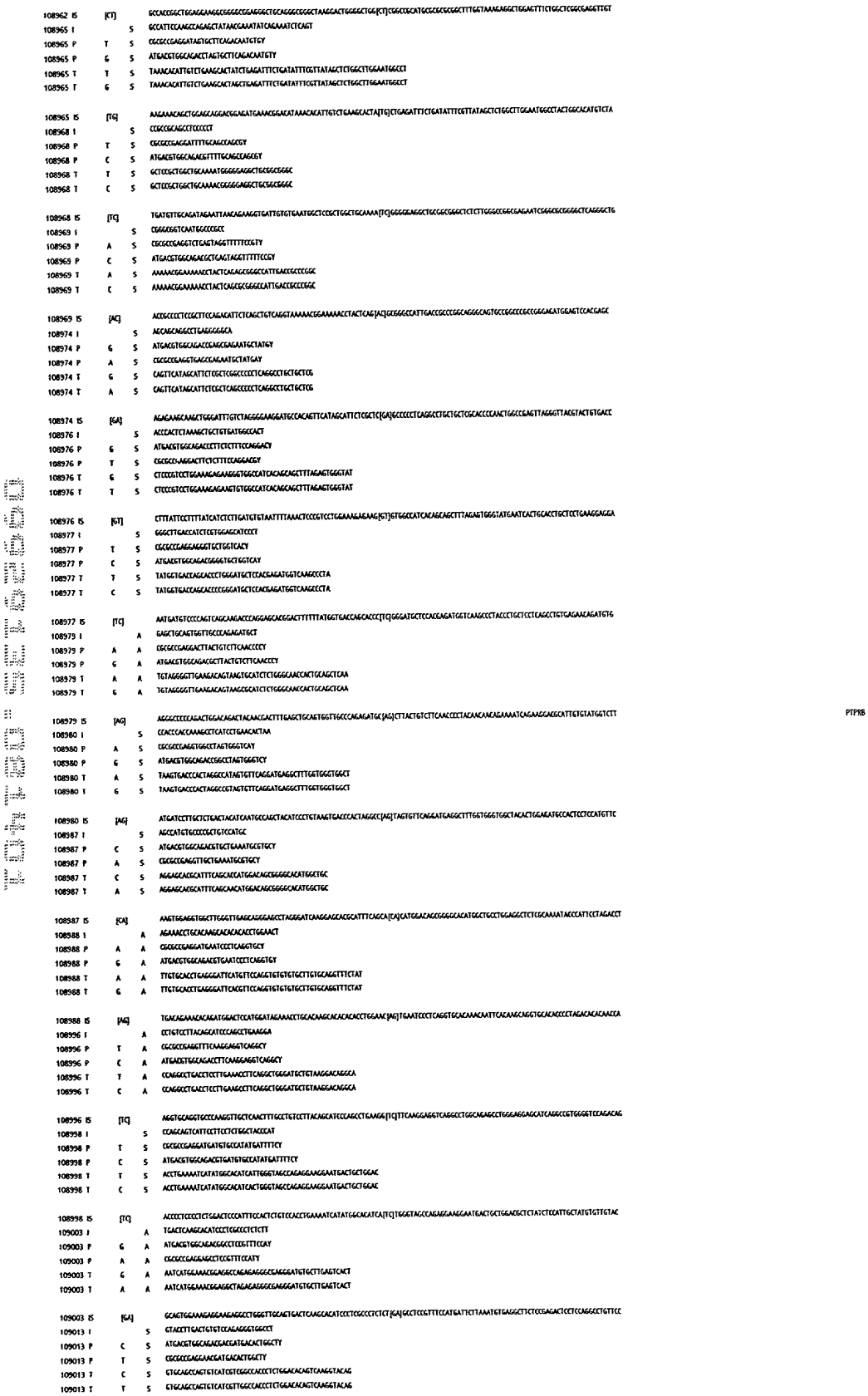
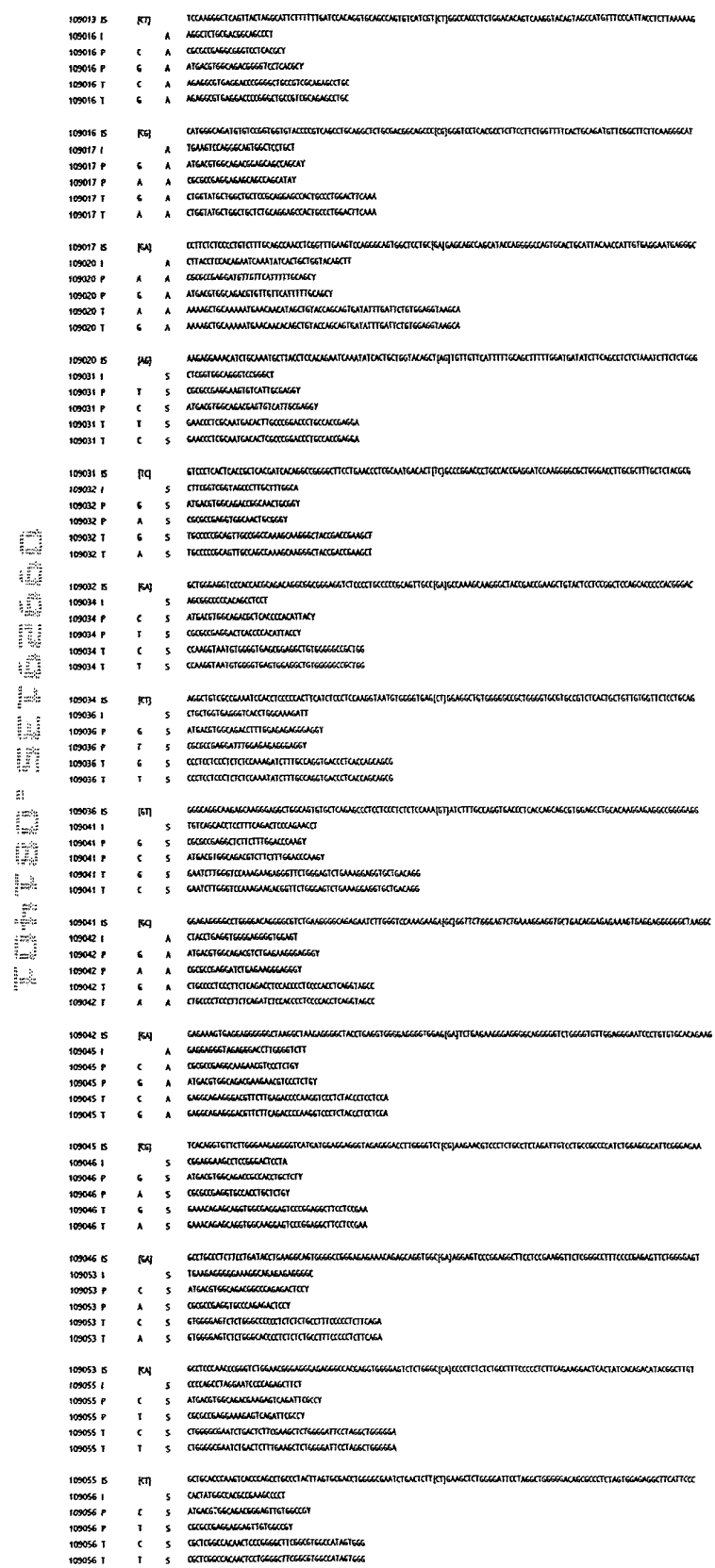
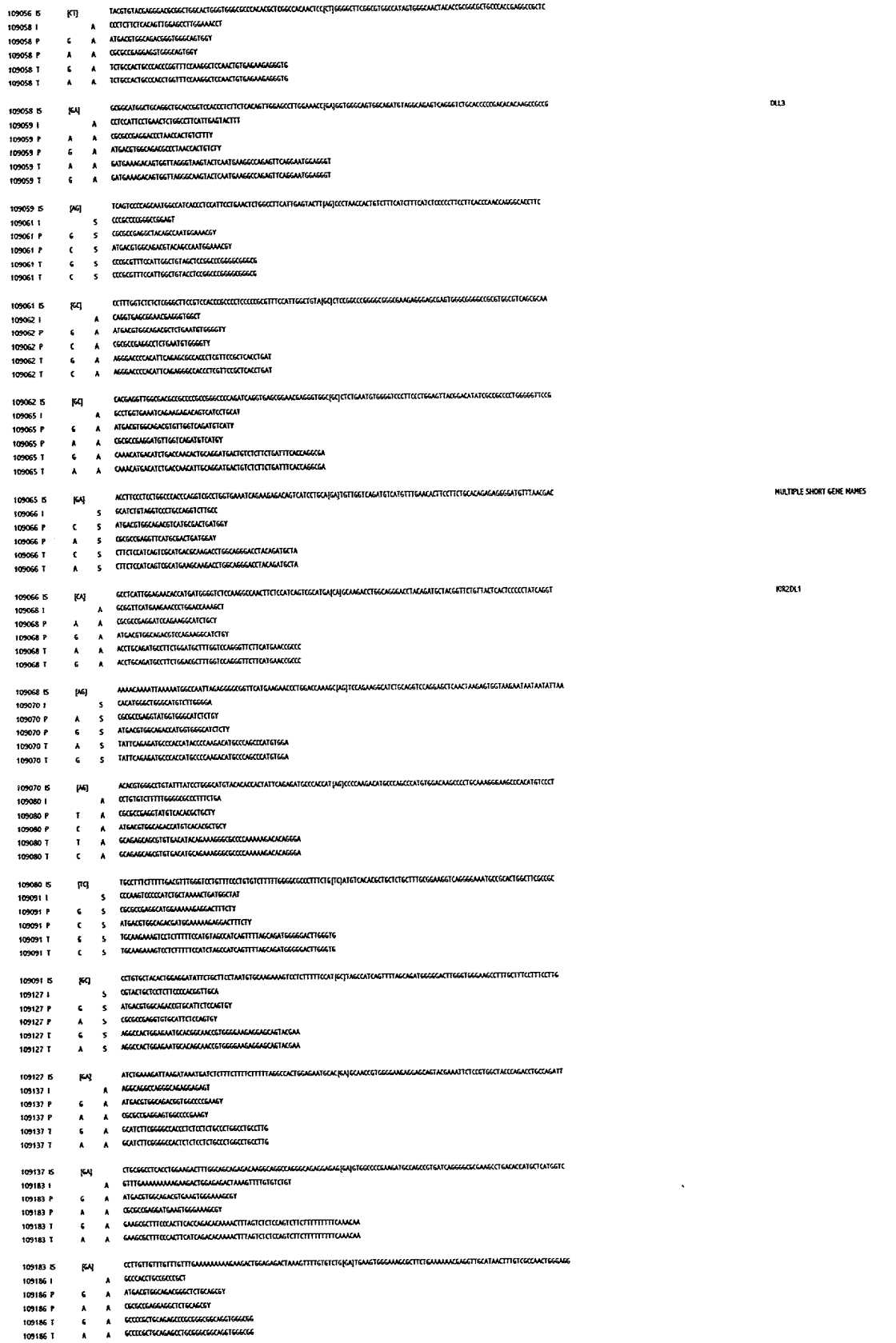


FIGURE 129G




108962 IS [CT] GCCACCGGCTGGAGGAAAGCGGGGCCGGAGGGCTGCAGGGCGGGCTAAGGACTGGGGCTGG[CT]CGGCCGCATGCGCGCGCGGCTTTGGTAAAGAGGCTGGAGTTTCTGGCTCGGCGAGGTTGT
108965 I S GCCATTCCAAGCCAGAGCTATAACGAAATATCAGAAATCTCAGT
108965 P T S CGCGCCGAGGATAGTGCTTCAGACAATGTGY
108965 P G S ATGACGTGGCAGACCTAGTGCTTCAGACAATGTY
108965 T T S TAAACACATTGTCTGAAGCACTATCTGAGATTTCTGATATTTCGTTATAGCTCTGGCTTGGAATGGCCT
108965 T G S TAAACACATTGTCTGAAGCACTAGCTGAGATTTCTGATATTTCGTTATAGCTCTGGCTTGGAATGGCCT
108965 IS [TG] AAGAAACAGCTGGAGCAGGACGGAGATGAAACGGACATAAACACATTGTCTGAAGCACTA[TG]CTGAGATTTCTGATATTTCGTTATAGCTCTGGCTTGGAATGGCCTACTGGCACATGTCTA
108968 I S CCGCCGCAGCCTCCCCCT
108968 P T S CGCGCCGAGGATTTTGCAGCCAGCGY
108968 P C S ATGACGTGGCAGACGTTTTGCAGCCAGCGY
108968 T T S GCTCCGCTGGCTGCAAAATGGGGGAGGCTGCGGCCGGC
108968 T C S GCTCCGCTGGCTGCAAAACGGGGGAGGCTGCGGCGGGC
108968 IS [TC] TGATGTTGCAGATAGAATTAACAGAAGGTGATTGTGTGAATGGCTCCGCTGGCTGCAAAA[TC]GGGGGAGGCTGCGCGGGCTCTCTTGGGCCGGCCAGAATCGGGCGCGGGGCTCAGGGCTG
108969 I S CGGGCGGTCAATGCCCGCC
108969 P A S CGCGCCGAGGTCTGAGTAGGTTTTTCCGTY
108969 P C S ATGACGTGGCAGACGCTGAGTAGGTTTTTCCGY
108969 T A S AAAAACGGAAAAACCTACTCAGAGCGGGCCATTGACCGCCCGGC
108969 T C S AAAAACGGAAAAACCTACTCAGCGCGGGCCATTGACCGCCCGGC
108969 IS [AC] ACCGCCCCTCCGCTTCCAGACATTCTCAGCTGTCAGGTAAAAACGGAAAAACCTACTCAG[AC]GCGGGCCATTGACCGCCCGGCAGGGCAGTGCCGGCCCGCCGGCAGATGGAGTCCACGAGC
108974 I S ACCAGCAGGCCTGAGGGGGCA
108974 P G S ATGACGTGGCAGACCGAGCAGAATGCTATGY
108974 P A S CGCGCCGAGGTGAGCCAGAATGCTATGAY
108974 T G S CAGTTCATAGCATTCTCGCTCGGCCCCCTCAGGCCTGCTGCTCG
108974 T A S CAGTTCATAGCATTCTCGCTCAGCCCCCTCAGGCCTGCTGCTCG
108974 IS [GA] AGAGAAGCAAGCTGGGATTTGTCTAGGGGAAGGATGCCACAGTTCATAGCATTCTCGCTC[GA]GCCCCCTCAGGCCTGCTGCTCGCACCCCAACTGGCCGAGTTAGGGTTACGTACTGTGACC
108976 I S ACCCACTCTAAAGCTGCTGTGATGGCCACT
108976 P G S ATGACGTGGCAGACCCTTCTCTTTCCAGGACY
108976 P T S CGCGCCGAGGACTTCTCTTTCCAGGACGY
108976 T G S CTCCCGTCCTGGAAAGAGAAGGGTGGCCATCACAGCAGCTTTAGAGTGGGTAT
108976 T T S CTCCCGTCCTGGAAAGAGAAGTGTGGCCATCACAGCAGCTTTAGAGTGGGTAT
108976 IS [GT] CTTTATTCCTTTTATCATCTCTTGATGTGTAATTTTAAACTCCCGTCCTGGAAAGAGAAG[GT]GTGGCCATCACAGCAGCTTTAGAGTGGGTATCAATCACTGCACCTGCTCCTGAAGGAGGA
108977 I S GGGCTTGACCATCTCGTGGAGCATCCCT
108977 P T S CGCGCCGAGGAGGGTGCTGGTCACY
108977 P C S ATGACGTGGCAGACGGGGTGCTGGTCAY
108977 T T S TATGGTGACCAGCACCCTGGGATGCTCCACGAGATGGTCAAGCCCTA
108977 T C S TATGGTGACCAGCACCCCGGGATGCTCCACGAGATGGTCAAGCCCTA
108977 IS [TC] AATGATGTCCCCAGTCAGCAAGACCCAGGAGCACGCACTTTTTATGGTGACCAGCACCC[TC]GGGATGCTCCACGAGATGGTCAAGCCCTACCTGCTCCTCAGCCTGTGAGAACAGATGTG
108979 I A GAGCTGCAGTGGTTGCCCAGAGATGCT
108979 P A A CGCGCCCAGGACTTACTGTCTTCAACCCCY
108979 P G A ATGACGTGGCAGACGCTTACTGTCTTCAACCCY
108979 T A A TGTAGGGGTTGAAGACAGTAAGTGCATCTCTGGGCAACCACTGCAGCTCAA
108979 T G A TGTAGGGGTTGAAGACAGTAAGCGCATCTCTGGGCAACCACTGCAGCTCAA
108979 IS [AG] AGGGCCCCCAGACTGGACAGACTACAACGACTTTGAGCTGCAGTGGTTGCCCAGAGATGC[AG]CTTACTGTCTTCAACCCCTACAACAACAGAAAATCAGAAGGAGCGCATTGTGTATGGTCTT PTPRB
108980 I S CCACCCACCAAAGCCTCATCCTGAACACTAA
108980 P A S CGCGCCCAGGTGGCCTAGTGGGTCAY
108980 P G S ATGACGTGGCAGACCGGCCTAGTGGGTCY
108980 T A S TAAGTGACCCACTAGGCCATAGTGTTCAGGATGAGGCTTTGGTGGGTGGCT
108980 T G S TAAGTGACCCACTAGGCCGTAGTGTTCAGGATGAGGCTTTGGTGGGTGGCT
108980 IS [AG] ATGATCCTTGCTCTGACTACATCAATGCCAGCTACATCCCTGTAAGTGACCCACTAGGCC[AG]TAGTGTTCAGGATGAGGCTTTGGTGGGTGGCTACACTGGAGATGCCACTCCTCCATGTTC
108987 I S AGCCATGTGCCCCGCTGTCCATGC
108987 P C S ATGACGTGGCAGACGTGCTGAAATGCGTGCY
108987 P A S CGCGCCGAGGTTGCTGAAATGCGTGCY
108987 T C S AGGAGCACGCATTTCAGCACCATGGACAGCGGGGCACATGGCTGC
108987 T A S AGGAGCACGCATTTCAGCAACATGGACAGCGGGGCACATGGCTGC
108987 IS [CA] AAGTGGAGGTGGCTTGGGTTGAGCAGGGAGCCTAGGGATCAAGGAGCACGCATTTCAGCA[CA]CATGGACAGCGGGGCACATGGCTGCCTGGAGGCTCTCGCAAAATACCCATTCCTAGACCT
108988 I A AGAAACCTGCACAAGCACACACACCTGGAACT
108988 P A A CGCGCCGAGGATGAATCCCTCAGGTGCY
108988 P G A ATGACGTGGCAGACGTGAATCCCTCAGGTGY
108988 T A A TTGTGCACCTGAGGGATTCATGTTCCAGGTGTGTGTGCTTGTGCAGGTTTCTAT
108988 T G A TTGTGCACCTGAGGGATTCACGTTCCAGGTGTGTGTGCTTGTGCAGGTTTCTAT
108988 IS [AG] TGACAGAAACACAGATGGACTCCATGGATAGAAACCTGCACAAGCACACACACCTGGAAC[AG]TGAATCCCTCAGGTGCACAAACAATTCACAAGCAGGTGCACACCCCTAGACACACAACCA
108996 I A CCTGTCCTTACAGCATCCCAGCCTGAAGGA
108996 P T A CGCGCCGAGGTTTCAAGGAGGTCAGGCY
108996 P C A ATGACGTGGCAGACCTTCAAGGAGGTCAGGCY
108996 T T A CCAGGCCTGACCTCCTTGAAACCTTCAGGCTGGGATGCTGTAAGGACAGGCA
108996 T C A CCAGGCCTGACCTCCTTGAAGCCTTCAGGCTGGGATGCTGTAAGGACAGGCA
108996 IS [TC] AGGTGCAGGTGCCCAAGGTTGCTCAACTTTGCCTGTCCTTACAGCATCCCAGCCTGAAGG[TC]TTCAAGGAGGTCAGGCCTGGCAGAGCCTGGGAGGAGCATCAGGCCGTGGGGTCCAGACAG
108998 I S CCAGCAGTCATTCCTTCCTCTGGCTACCCAT
108998 P T S CGCGCCGAGGATGATGTGCCATATGATTTTCY
108998 P C S ATGACGTGGCAGACGTGATGTGCCATATGATTTTCY
108998 T T S ACCTGAAAATCATATGGCACATCATTGGGTAGCCAGAGGAAGGAATGACTGCTGGAC
108998 T C S ACCTGAAAATCATATGGCACATCACTGGGTAGCCAGAGGAAGGAATGACTGCTGGAC
108998 IS [TC] ACCCCTCCCCTCTGGACTCCCATTTCCACTCTGTCCACCTGAAAATCATATGGCACATCA[TC]TGGGTAGCCAGAGGAAGGAATGACTGCTGGACGCTCTATCTCCATTGCTATGTGTTGTAC
109003 I A TGACTCAAGCACATCCCTCGCCCTCTCTT
109003 P G A ATGACGTGGCAGACGGCCTCCGTTTCCAY
109003 P A A CGCGCCGAGGAGCCTCCGTTTCCATY
109003 T G A AATCATGGAAACGGAGGCCAGAGAGGCCCAGGGATGTGCTTGAGTCACT
109003 T A A AATCATGGAAACGGAGGCTAGAGAGGGCGAGGGATGTGCTTGAGTCACT
109003 IS [GA] GCAGTGGAAAGAGGAAGAGGCCTGGGTTGCAGTGACTCAAGCACATCCCTCGCCCTCTCT[GA]GCCCGTTTCCATGATTCTTAAATGTGAGGCTCTCCCGAGACTCCTCCAGGCCTGTTCC
109013 I S GTACTTGACTGTGTCCAGAGGGTGGCCT
109013 P C S ATGACGTGGCAGACGACGATGACACTGGCTY
109013 P T S CGCGCCGAGGAACGATGACACTGGCTY
109013 T C S GTGCAGCCAGTGTCATCGTCGGCCACCCTCTGGACACAGTCAAGGTACAG
109013 T T S GTGCAGCCAGTGTCATCGTTGGCCACCCTCTGGACACAGTCAAGGTACAG




DLL3
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KIR2DL1

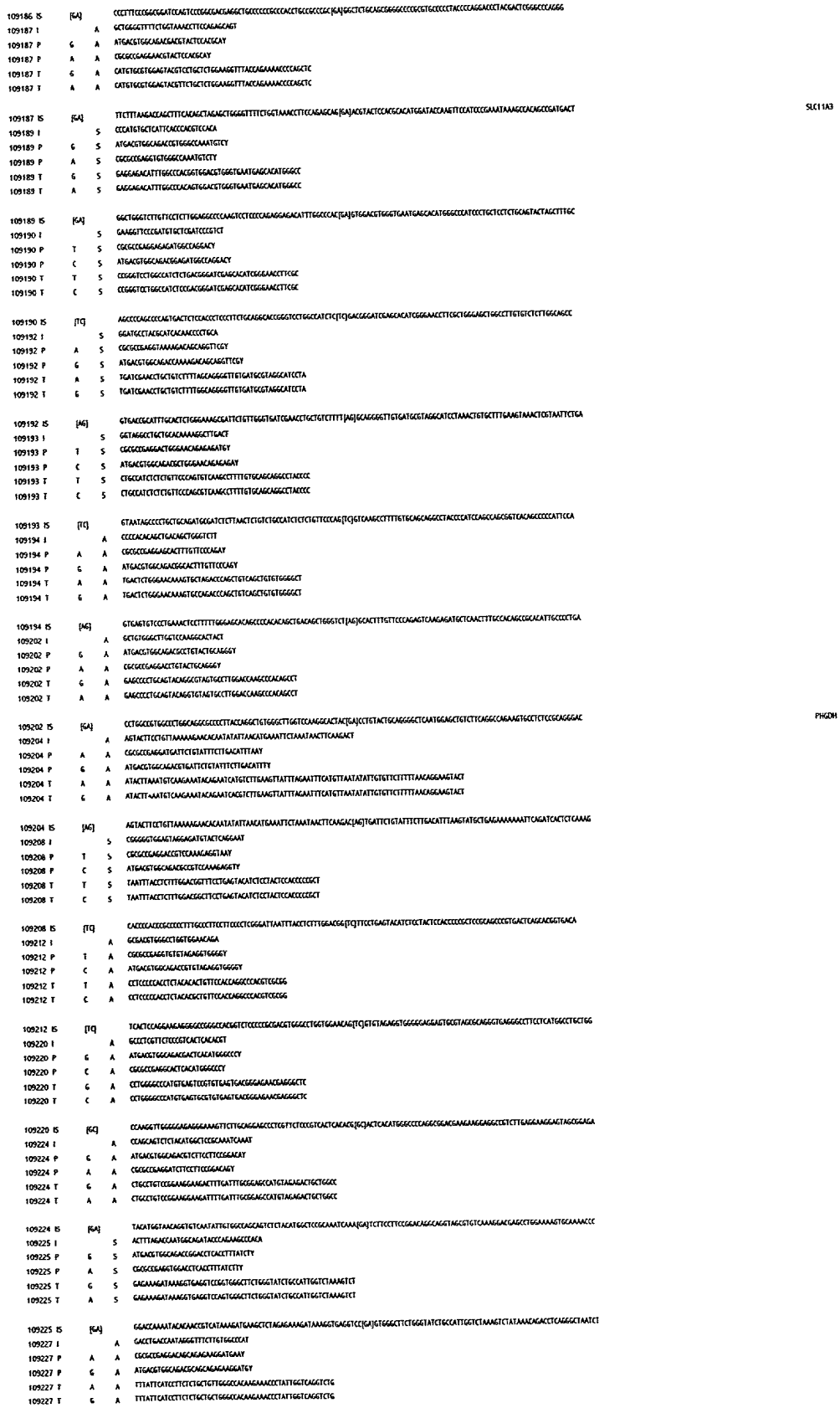
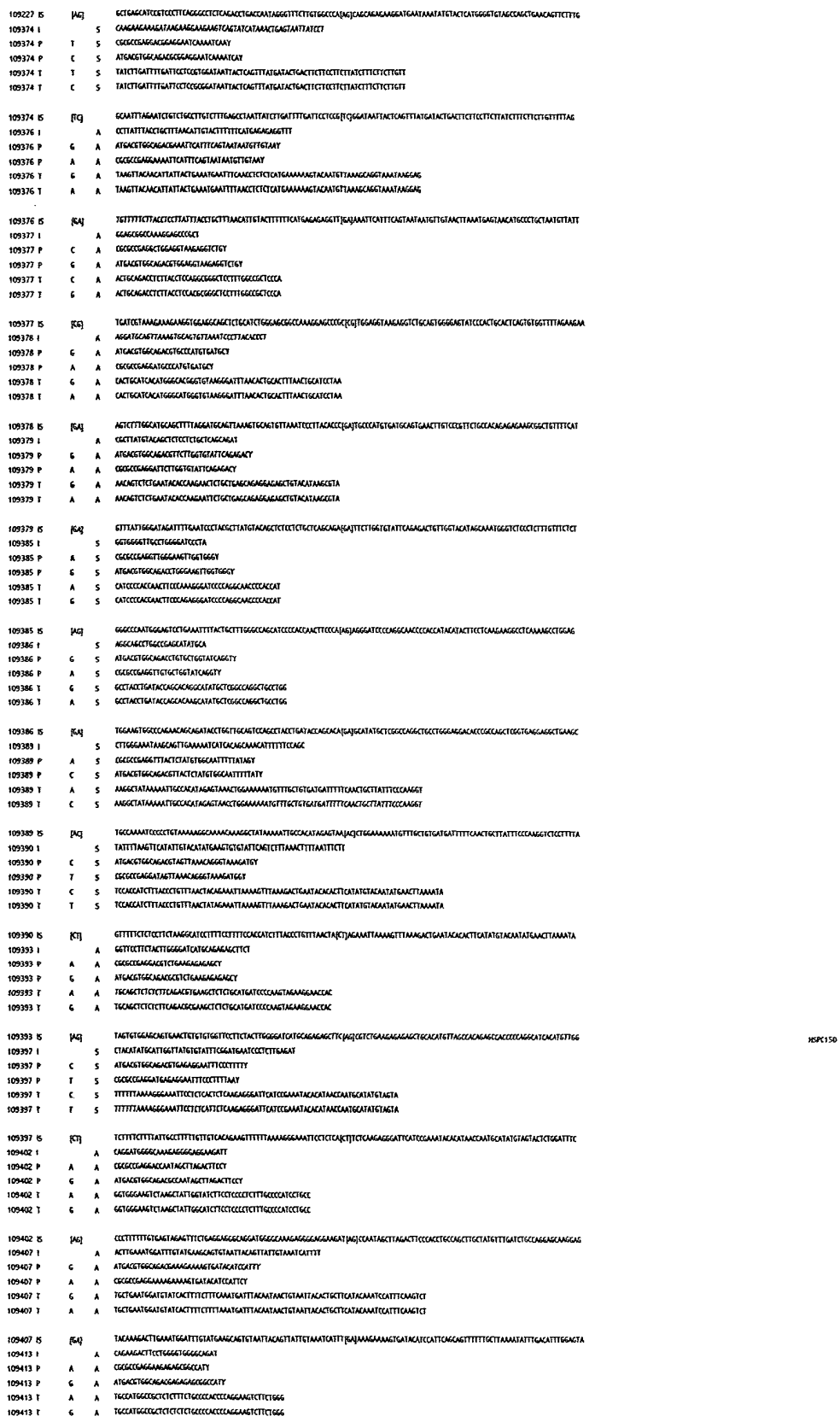
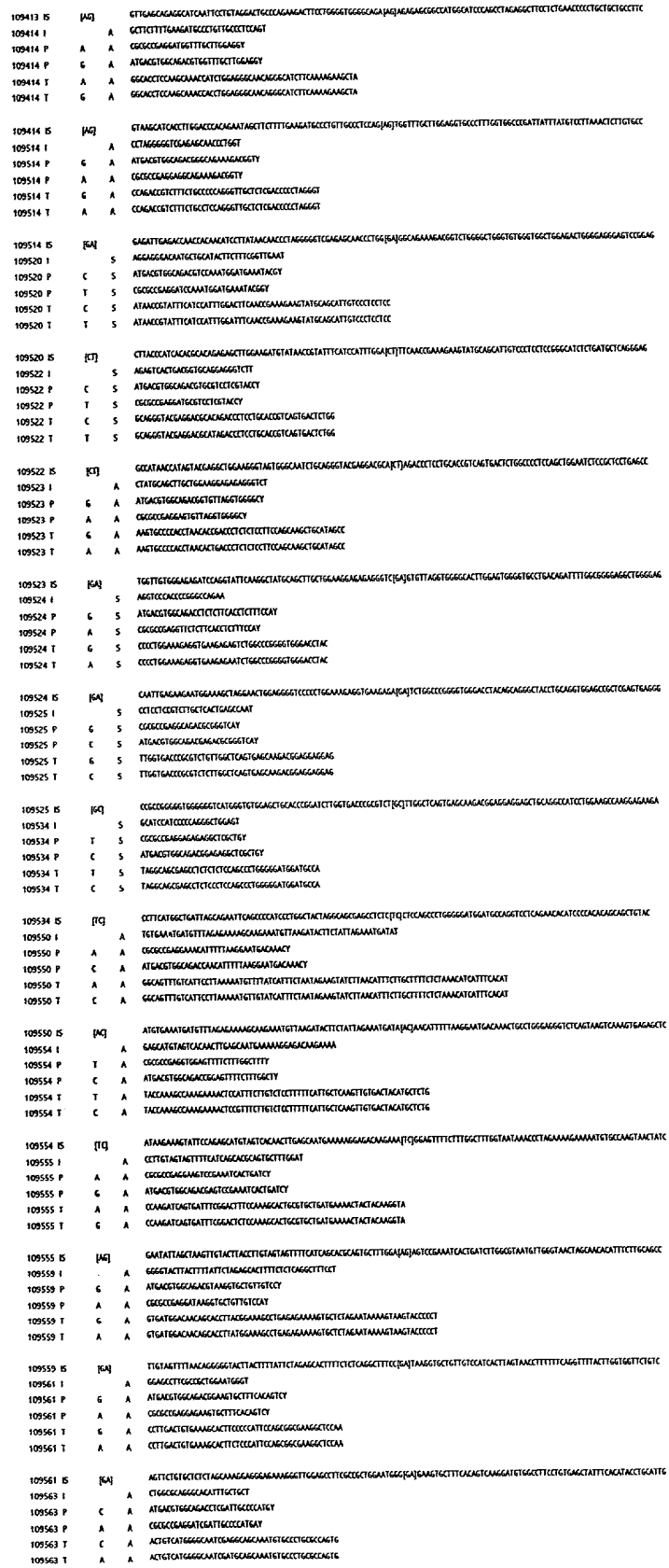

SLC11A3
PHGDH

FIGURE 129G



MSPC150

FIGURE 129G



SKGLECG

Applied Biosystems

FIGURE 129G

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109563 IS      [CA]      GCCCAAACCCAGCTGTCACCCTCGAAAACTTCCTCCACTGGCGCAGGGCACATTTGCTGC[CA]TCGATTGCCCCATGACAGTGCCCAGCTGGTGACGTAAGGGCCCCAGACTCAGCCAGAGAG
109564 I         S      TCCTCGACAGGTAGGTACTCATTTCCTGTGGAGTGT
109564 P    T    S      CGCGCCGAGGAGACAGATGGCCTCCY
109564 P    C    S      ATGACGTGGCAGACGGACAGATGGCCTCCY
109564 T    T    S      CACAGGAGGCCATCTGTCCCACTCCACAGGAAATGAGTACCTACCTGTCGAGGAAT
109564 T    C    S      CACAGGAGGCCATCTGTCCCACTCCACAGGAAATGAGTACCTACCTGTCGAGGAAT

109564 IS      [TC]      TGACCAGCAAGAGAGACTTCTGGAAGCTAGGAGTAGCCAGTACACAGCAGAGGCCATCTGTC[TC]CACTCCACAGGAAATGAGTACCTACCTGTCGAGGAATGCTACCTCTTGGTGGCTGGGTAG
109567 I         A      CCACGCCTCCCCTTGAGTCTGGGTAAAGT
109567 P    G    A      ATGACGTGGCAGACGCCATTCATTCTCAGGAGY
109567 P    C    A      CGCGCCGAGGCCATTCATTCTCAGGAGY
109567 T    G    A      TCATCTCCTGAGAATGAATGGCCTTTACCCAGACTCAAGGGGAGGGGTGGAG
109567 T    C    A      TCATCTCCTGAGAATGAATGGGCTTTACCCAGACTCAAGGGGAGGGCGTGGAG

109567 IS      [GC]      CACTCCGCGGACCCCTGGAGTGGGGGCCCCTCCAGGCCTCCCTTGAGTCTGGGTAAAG[GC]CCATTCATTCTCAGGAGATGAGCCTCAGTGTCCCACCTACATTCCAGATAGCACTGGTGAC
109569 I         A      TGCTGTTGTTGCTATTGTTAATATTATTATTTTGGCTGAGACATGGAGTGATCAAATAT
109569 P    A    A      CGCGCCGAGGAATATAGACTTAACTCAGAACCCY
109569 P    G    A      ATGACGTGGCAGACGATATAGACTTAACTCAGAACCCY
109569 T    A    A      ACCAGGGTTCTGAGTTAAGTCTATATTTATTTGATCACTCCATGTCTCAGCCAAAATAATAATATTAACAATAGCAACAACAGCAAG
109569 T    G    A      ACCAGGGTTCTGAGTTAAGTCTATATCTATTTGATCACTCCATGTCTCAGCCAAAATAATAATATTAACAATAGCAACAACAGCAAG

109569 IS      [AG]      CTTGCTGTTGTTGCTATTGTTAATATTATTATTTTGGCTGAGACATGGAGTGATCAAATA[AG]ATATAGACTTAACTCAGAACCCTGGTTTTAATATACTTCTTTAAATGAATTGAGTGTTTA
109610 I         S      CGAAGCTGCCTTCGCGCGCAT
109610 P    T    S      CGCGCCGAGGACAGCTGGTGACGTY
109610 P    C    S      ATGACGTGGCAGACGCAGCTGGTGACGTY
109610 T    T    S      GGCCACGTCACCAGCTGTTGCGCGCGAAGGCAGCTTGGCG
109610 T    C    S      GGCCACGTCACCAGCTGCTGCGCGCGAAGGCAGCTTGGCG

109610 IS      [TC]      ACTTTTACACATTCACTCATGAAAAGGGAGCGCACACAAATCCGGCCACGTCACCAGCTG[TC]TGCGCGCGAAGGCAGCTTGGCGGCGTCGGTGCTGGTTCCGGAGGGCGCTCAGCGGGAAGA
109614 I         S      ACAGGTAAGGCCGTGCGCCCCT
109614 P    G    S      CGCGCCGAGGCCACTGCGCTGGAY
109614 P    C    S      ATGACGTGGCAGACGCACTGCGCTGGAY
109614 T    G    S      TAAATCCAGCGCAGTGCGGGGCGCACGGCCTTACCTGTGC
109614 T    C    S      TAAATCCAGCGCAGTGCGGGGCGCACGGCCTTACCTGTGC

109614 IS      [GC]      GACAAATCCTAAAAGTCCCTCGTGCGCAGCATACAAAGTTGTGGGTAAATCCAGCGCAGTG[GC]GGGGCGCACGGCCTTACCTGTGCCATGGCGACTACTCAGGTCAGGGCAAGGTGAAGCAGG
109615 I         S      ACATGAAGAGCTATCCTGGACTCCTCCAATGT
109615 P    T    S      CGCGCCGAGGACAATTCAGTGACTCCTTTTY
109615 P    C    S      ATGACGTGGCAGACGCAATTCAGTGACTCCTTY
109615 T    T    S      TACCAAAAGGAGTCACTGAATTGTCATTGGAGGAGTCCAGGATAGCTCTTCATGTTA
109615 T    C    S      TACCAAAAGGAGTCACTGAATTGCCATTGGAGGAGTCCAGGATAGCTCTTCATGTTA

109615 IS      [TC]      GAACCAGCTCCAAGAAGAAAACATCTCTGGGAAACAGTACCAAAAGGAGTCACTGAATTG[TC]CATTGGAGGAGTCCAGGATAGCTCTTCATGTTATTTTCACCTTGAGGAATTGTCCATTAC
109622 I         S      CGCGCTCCGAGGTCCCCCGGT
109622 P    C    S      ATGACGTGGCAGACGCCTGTGTCCCGY
109622 P    G    S      CGCGCCGAGGCCCTCTGTCTCCCGY
109622 T    C    S      CGCCCGGGAGACAGAGGCCCGGGGACCTCGGAGCGCGGC
109622 T    G    S      CGCCCGGGAGACAGAGGCCCGGGGACCTCGGAGCGCGGC

109622 IS      [CG]      TACTCCAGCCGGCTACCGGCCCGAAGGCCCGCTGCTGGAGGACGCCCCGGGAGACAGAGG[CG]CCGGGGACCTCGGAGCGCGGCGGCCGACACAATGCAGTCCTCCTTCCGCAGAGAGGCAG
109628 I         A      GCTGCACATTCACGCCTGCAGCACT
109628 P    G    A      ATGACGTGGCAGACGAGAAGTCTTGTCCAAGAGY
109628 P    A    A      CGCGCCGAGAAGAAGTCTTGTCCAAGAGY
109628 T    G    A      GAGGCTCTTGGACAAGACTTCTCGTGCTGCAGGCCGTGAATGTGCAGCCC
109628 T    A    A      GAGGCTCTTGGACAAGACTTCTTGTGCTGCAGGCCGTGAATGTGCAGCCC

109628 IS      [GA]      AAAGCTCAGACCCTTATAAGTGGCATTTGCAGAGGGCTGCACATTCAGGGCCTGCAGCAC[GA]AGAAGTCTTGTCCAAGAGCCTCCTGGAAGTCCCAAAAGGTTCCAGTGTAACAGTTACCAG
109648 I         S      TGGAGCAAACCTGGCCTTACCTAGACCAGTAAGTATAGTTAT
109648 P    T    S      CGCGCCGAGGATAGTGCCTTATATAAGGAGCY
109648 P    C    S      ATGACGTGGCAGACGTAGTGCCTTATATAAGGAGCY
109648 T    T    S      GACTGCTCCTTATATAAGGCACTATTAACTATACTTACTGGTCTAGGTAAGGCCAGGTTTGCTCCATA
109648 T    C    S      GACTGCTCCTTATATAAGGCACTACTAACTATACTTACTGGTCTAGGTAAGGCCAGGTTTGCTCCATA

109648 IS      [TC]      GTCACATAGAAAAAGTAACAGAAGACACCCCATCTATGACTGCTCCTTATATAAGGCACTA[TC]TAACTATACTTACTGGTCTAGGTAAGGCCAGGTTTGCTCCATACCAGTGATAAAGTGCTC
109651 I         S      TGTGATGACAACGGTAATTTAACCACTTGACCGTATATT
109651 P    C    S      ATGACGTGGCAGACGGTTTTCATCCTTGAAGACTY
109651 P    G    S      CGCGCCGAGGCGTTTTCATCCTTGAAGACTY
109651 T    C    S      TGACAGTCTTCAAGGATGAAAACCATATACGGTCAAGTGGTTAAAATTACCGTTGTCATCACAAC
109651 T    G    S      TGACAGTCTTCAAGGATGAAAACGATATACGGTCAAGTGGTTAAAATTACCGTTGTCATCACAAC

109651 IS      [CG]      CCTAAAATAACAGGCAGGAAAGACACTTGAAAATATATGACAGTCTTCAAGGATGAAAAC[CG]ATATACGGTCAAGTGGTTAAAATTACCGTTGTCATCACAACCTTTAAGAAGCGCAACACA
109652 I         A      CGGGCGGGCCACGGGGT
109652 P    A    A      CGCGCCGAGGAGTAGCGCAAAGAGTGCY
109652 P    C    A      ATGACGTGGCAGACGTAGCGAAAGAGTGY
109652 T    A    A      CAGCGCACTCTTTCCGCTACTCCCCGTGGCCCGCCCGGC
109652 T    C    A      CAGCGCACTCTTTCCGCTACGCCCGTGGCCCGCCCGGC

109652 IS      [AC]      CTGCCCGCGGCGCGCTCGTGCAGCGCAGCGCTGCAGGTCAGCCGCCGGGCGGGCCACGGGG[AC]GTAGCGGAAAGAGTGCGCTGGCTCCGGCAAAGCCGGGCGCAGCGGGGCGCGCTCCCAGGT
109655 I         S      CCCCTTACCTTGGGCGCGCGAGT
109655 P    G    S      ATGACGTGGCAGACCCAGTGCCGCTGGY
109655 P    T    S      CGCGCCGAGGACAGTGCCGCTGGY
109655 T    G    S      AGCGCCAGCGGCACTGGCTCCGCCGCCCAAGGTAAGGGGGT
109655 T    T    S      AGCGCCAGCGGCACTGTCTCCGCCGCCCAAGGTAAGGGGGT

109655 IS      [GT]      GATACTTGCTGCAAATGCTCGTGCTACCTGCCCTGGCCCTGCTCAGCGCCAGCGGCACTG[GT]CTCCGCCGCCCAAGGTAAGGGGGTCCGCCAAGCTCCGCGGGCCACCTCCCTTAGCTTCTTC
109683 I         A      CCAGGAGCGCATGGCAGATGCAGCT
109683 P    G    A      ATGACGTGGCAGACGTCAGTGATGCCTCTCTY
109683 P    C    A      CGCGCCGAGGCTCAGTGATGCCTCTCTY
109683 T    G    A      GGCAAGAGAGGCATCACTGAGGCTGCATCTGCCATGCGCTCCTGGTG
109683 T    C    A      GGCAAGAGAGGCATCACTGAGGCTGCATCTGCCATGCGCTCCTGGTG

109683 IS      [GC]      CTCAAGCCGGGTCTGGCCTGACAGGGTGCAGTCACACCAGGAGCGCATGGCAGATGCAGC[GC]TCAGTGATGCCTCTCTTGCCGGGTAGGGCGTGGGAGTCCCCGTGCACCCTGTCTCTGGCC
109684 I         S      CCTGAGAATGGCATTGCCTAATGGCCATAGTAGGAAAAAA
109684 P    G    S      ATGACGTGGCAGACGAGCAATGTTGCCTY
109684 P    A    S      CGCGCCGAGGTGAGCAATGTTGCCTGY
109684 T    G    S      CGATCAGGCAACATTGCTGTTTTTCCTACTATGGCCATTAAGGCAATGCCATTCTCAGGGC
109684 T    A    S      CGATCAGGCAACATTGCTCATTTTTCCTACTATGGCCATTAAGGCAATGCCATTCTCAGGGC
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109684 IS      [GA]      ACATGTGCCTCTCAGTTAACATCTTTGATATTCAATTGCAGCGATCAGGCAACATTGCTC[GA]TTTTTCCTACTATGGCCATTAAGGCAATGCCATTCTCAGGGCCTCCATTAGGACTTGTAG
109685 I          S      GGCCCCCGAAACTTTTGAAGTAGTAATGATCTTGAAATTTGCTTTT
109685 P     T    S      CGCGCCGAGGATTTTGTGTCTTTTTCAGAATTCTY
109685 P     C    S      ATGACGTGGCAGAGGTTTTGTGTCTTTTCAGAATTCT
109685 T     T    S      GTGGAGAATTCTGAAAAAGACACAAAATAAAGCAAATTTCAAGATCATTACTACTTCAAAAGTTTCGGGGGCCAA
109685 T     C    S      GTGGAGAATTCTGAAAAAGACACAAACAAAGCAAATTTCAAGATCATTACTACTTCAAAAGTTTCGGGGGCCAA

109685 IS      [TC]      CTGTGTGTCCCAGATCCTGTAAGTATTGGTAAAGTGGAGAATTCTGAAAAAGACACAAAA[TC]AAAGCAAATTTCAAGATCATTACTACTTCAAAAGTTTCGGGGGCCAAACTTAATACCAGA
109701 I          A      CTTGTCCCCCACCATCCACCGCCT
109701 P     G    A      ATGACGTGGCAACACGCGGGAACCCTACAY
109701 P     A    A      CGCGCCGAGGACGGGAACCCTACACY
109701 T     G    A      GTGGGTGTAGGGTTCCCGCGGGCGTGGATGGTGGGGACAAGTA
109701 T     A    A      GTGGGTGTAGGGTTCCCGTGGCGGTGGATGGTGGGGACAAGTA

109701 IS      [GA]      CAGCATGCCACCTCCAGCTAAGGCCAGGTGCTACCTACTTGTCCCCCACCATCCACCGCC[GA]CGGGAAACCCTACACCCACCCCTTTGCCCCTTACCTTGAGCAGGTCCAGCAGCTTTAGTTC
109720 I          A      CTTTCACTCCTTTCCTTCATCTCTTGGGCCCGT
109720 P     G    A      ATGACGTGGCGAGCGCCATTCTGAGAGCACY
109720 P     C    A      CGCGCCGAGGCCCATTCTGAGAGCACAY
109720 T     G    A      AAGATGTGCTCTCAGAATGGCCGGGCCCAAGAGATGAAGGAAAGGAGTGAAAGGG
109720 T     C    A      AAGATGTGCTCTCAGAATGGGCGGCCCAAGAGATGAAGGAAAGGAGTGAAAGGG

109720 IS      [GC]      TTCCTTCCACTTCTCTGGTCTACTTCCCTTTCACTCCTTTCCTTCATCTCTTGGGCCCG[GC]CCATTCTGAGAGCACATCTTGCTAGGCCAGCTCTGGCAGTGGCATGGAGGTGGCATATGC                NYD-SP18
109721 I          A      GTTATGTACAGCTGGAAAGGCTCTGCTGTCACCT
109721 P     G    A      ATGACGTGGCGAGCGTGAGATGACTCTATTCTTCCY
109721 P     A    A      CGCGCCGAGGATGAGATTGACTCTATTCTTCCTY
109721 T     G    A      ACCAAGGAAGAATAGAGTCATCTCACGGTGACAGCAGAGCCTTTCCAGCTGTACATAACCA
109721 T     A    A      ACCAAGGAAGAATAGAGTCATCTCATGGTGACAGCAGAGCCTTTCCAGCTGTACATAACCA

109721 IS      [GA]      ATGCCGAGGTGCAGTGGCGAGGAGCGTGGTTATGTACAGCTGGAAAGGCTCTGCTGTCACC[GA]TGAGATGACTCTATTCTTCCTTGGTTGCAGTTTTCTCCTACTCTCCATCCCGATAATCCC                NYD-SP18
109756 I          A      AAACTTCAGTTGGCAAATCAAATTGAAATAATAGTTGATATAATGAAACTCTAGTACT
109756 P     A    A      CGCGCCGAGGATTGATTTGAACAGTTCCTTGY
109756 P     G    A      ATGACGTGGCAGACGTTGATTTGAACAGTTCCTTGY
109756 T     A    A      ATACCAAGGAACTGTTCAAATCAATGTACTAGAGTTTCATTATATCAACTATTATTTCAATTTGATTTGCCAACTGAAGTTTGG
109756 T     G    A      ATACCAAGGAACTGTTCAAATCAACGTACTAGAGTTTCATTATATCAACTATTATTTCAATTTGATTTGCCAACTGAAGTTTGG

109756 IS      [AG]      TCCAAACTTCAGTTGGCAAATCAAATTGAAATAATAGTTGATATAATGAAACTCTAGTAC[AG]TTGATTTGAACAGTTCCTTGGTATTTTGATCTATTTATTTAAAAATTGTGTCAGACAATT
109759 I          A      GGCACTTTCCTGGGGCGAGGGCT
109759 P     A    A      CGCGCCGAGGAGCAGGGCAAGAGCY
109759 P     G    A      ATGACGTGGCAGACGGCAGGGCAAGAGCY
109759 T     A    A      TACTGCTCTTGCCCTGCTGCCCTCGCCCCAGGAAAGTGCCTA
109759 T     G    A      TACTGCTCTTGCCCTGCCGCCCTCGCCCCAGGAAAGTGCCTA

109759 IS      [AG]      CTTTCCTGGGGTCTTGTATTCATCTGAATGGACTATAGGCACTTTCCTGGGGCGAGGGC[AG]GCAGGGCAAGAGCAGTATCTTTCAGCAGGAGGAACCTGGGAGACTGTTTATGTTCTTGAA
109760 I          A      GCATTCATGTTCTTACAGCCCTGTCAAATTTTTTCTGTGTTGATATTACCTATT
109760 P     A    A      CGCGCCGAGGAATTGCATTTTGTTTTTCCTGY
109760 P     G    A      ATGACGTGGCAGACGATTGCATTTTGTTTTTCCTGY
109760 T     A    A      TATCCAGGAAAAACAAAATGCAATTATAGGTAATATCAACACAGAAAAAATTTGACAGGGCTGTAAGAACATGAATGCAA
109760 T     G    A      TATCCAGGAAAAACAAAATGCAATCATAGGTAATATCAACACAGAAAAAATTTGACAGGGCTGTAAGAACATGAATGCAA

109760 IS      [AG]      TGTAATTGCATTCATGTTCTTACAGCCCTGTCAAATTTTTTCTGTGTTGATATTACCTATJAGJATTGCATTTTGTTTTTCCTGGATATGAAAAGCAGAGGAAAGTATATTATACCGTATTTTT
109764 I          A      CGCCCTCGAGAAGGAGGGCACATTCAT
109764 P     A    A      CGCGCCGAGGAGCTTCCATCAGGATTCCY
109764 P     G    A      ATGAGGTGGCAGAGGCTTCCATCAGGATTCY
109764 T     A    A      CACAGGAATCCTGATGGAAGCTTGAATGTGCCCTCCTTCTCGACGGCGAC
109764 T     G    A      CACAGGAATCCTGATGGAAGCCTGAATGTGCCCTCCTTCTCGACGGCGAC

109764 IS      [AG]      GCAAGGTCCCAGGGCTGCCCAGCAGACAAAGTGTCGCCGTCGAGAAGGAGGGCACATTCA[AG]GCTTCCATCAGGATTCCTGTGAGCCTGGTCTGGGCAGGCCTGGTCCTTCTAGCTGTCCTC
109794 I          S      GGTGATCCATGGGACATGGCAGGTCGTCA
109794 P     A    S      CGCGCCGAGGTTTCAGTGCTGCAGGY
109794 P     G    S      ATGACGTGGCAGACCTTCAGTGCTGCAGGY
109794 T     A    S      CAGGCCTGCAGCACTGAAGACGACCTGCCATGTCCCATGGATCACCGC
109794 T     G    S      CAGGCCTGCAGCACTGAAGGACGACCTGCCATGTCCCATGGATCACCGC

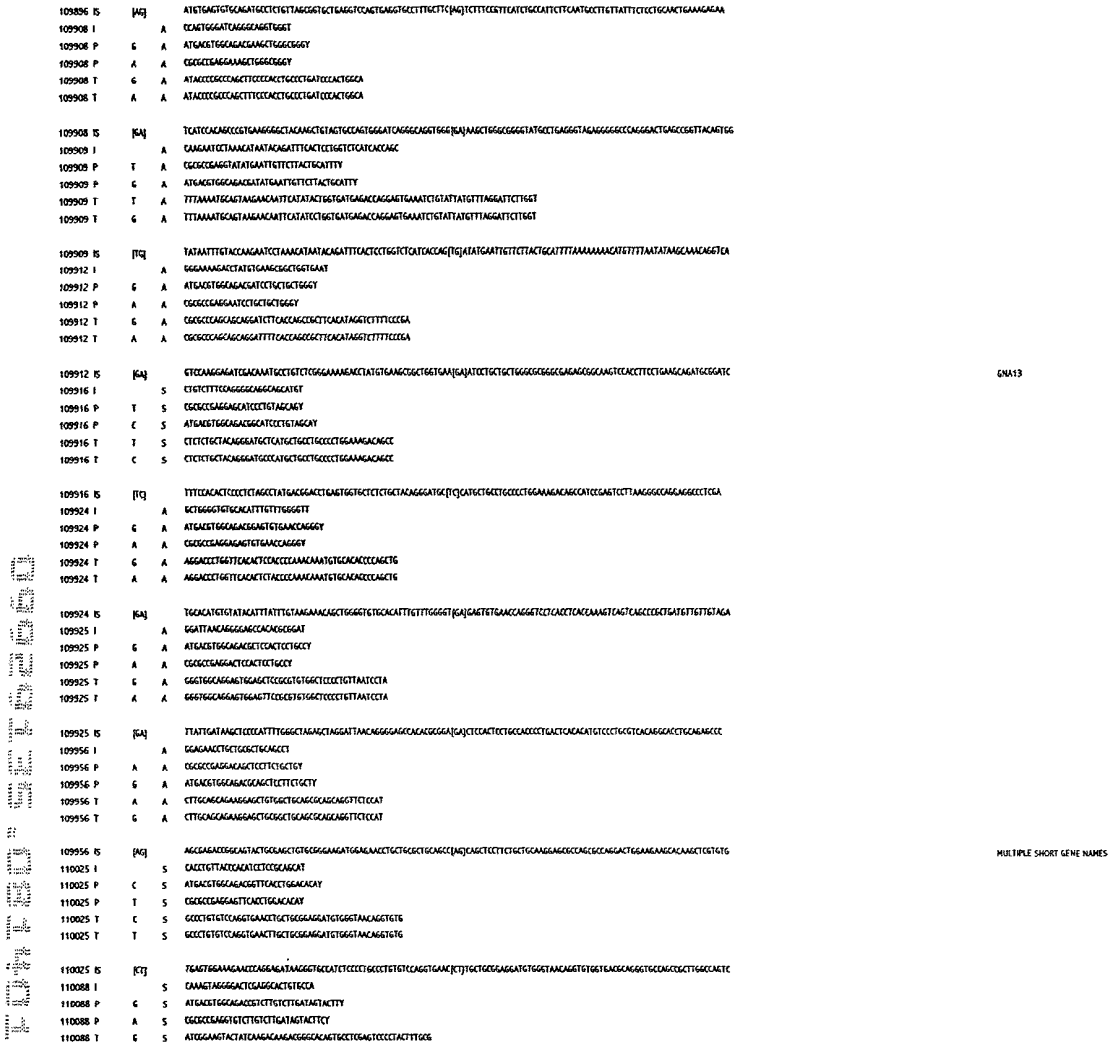
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109821 I          S      GCTAGAGGGTTCCTGCAGAGTTTTCAGCAT
109821 P     C    S      ATGACGTGGCAGCGTTGGCATGTAGGGCY
109821 P     T    S      CGCGCCGAGGATTGGCATGTAGGGCTY
109821 T     C    S      TGCAAGCCCTACATGCCAACTGCTGAAAACTCTGCAGGAACCCTCTGAGCTT
109821 T     T    S      TGCAAGCCCTACATGCCAATTGCTGAAAACTCTGCAGGAACCCTCTGAGCTT

109821 IS      [CT]      CTTGGTGAGGGGTTACTGATCTGAGGCATAAATGAGCAAGCTGCAAGCCCTACATGCCAA[CT]TGCTGAAAACTCTGCAGGAACCCTCTGAGCTTGCCAAAACCAGTAAGCCATAACTGCGG
109826 I          A      AGAACTCCATCTGTAAACATCICATTTCCAGGGTCAGTGACT
109826 P     A    A      CGCGCCGAGGAAATATCATTAGGAATCTTAGGCTY
109826 P     C    A      ATGACGTGGCAGACCAATATCATTAGGAATCTTAGGCTY
109826 T     A    A      CATAAGCCTAAGATTCCTAATGATATTTGTCACTGACCCTGGAAATGAGATGTTTACAGATGGAGTTCTCT
109826 T     C    A      CATAAGCCTAAGATTCCTAATGATATTGGTCACTGACCCTGGAAATGAGATGTTTACAGATGGAGTTCTCT

109826 IS      [AC]      ACTTATCTGTCAGATGAGAGAACTCCATCTGTAAACATCTCATTTCCAGGGTCAGTGAC[AC]AATATCATTAGGAATCTTAGGCTTATGATTAGTGAGSTTAACCTTTGAGAAATTTTTTTA
109891 I          S      GGCTGTTTTGTGAGCAGGGAGGATTTCAGGACT
109891 P     T    S      CGCGCCGAGGAAACCACAAACAAGCTGTY
109891 P     C    S      ATGACGTGGCAGACCAACCACAAACAAGCTGTY
109891 T     T    S      ACAACAGCTTGTTTGTGGTTTGTCCTGAAATCCTCCCTGCTCACAAAACAGCCAG
109891 T     C    S      ACAACAGCTTGTTTGTGGTTCGTCCTGAAATCCTCCCTGCTCACAAAACAGCCAG

109891 IS      [TC]      GGGCATACGTGTAAATGAACTGTCAACCTTAAAATCTAAACAAACAGCTGTTTGTGGTT[TC]GTCCTGAAATCCTCCCTGCTCACAAAACAGCCAGCTACTTGGTTTTCTAAAAGACGTAAT
109895 I          S      AAAGAGAATGGGATCAAGGAGAGAGCTGACCTCAGT
109895 P     G    S      CGGCCCGAGGCTGACAGAGAAACAGCAGY
109895 P     C    S      ATGACGTGGCAGACGTGACAGAGAAACAGCAGY
109895 T     G    S      TTACCTGCTGTTTCTCTGTCAGCTGAGGTCAGCTCTCCGTTGATCCCATTCTCTTTGG
109895 T     C    S      TTACCTGCTGTTTCTCTGTCACCTGAGGTCAGCTCTCCGTTGATCCCATTCTCTTTGG

109895 IS      [GC]      AAGCACAAGCAAGCACTTGGTGACAGTAGACCCCTTAGTTACCTGCTGTTTCTCTGTCA[GC]CTGAGGTCAGCTCTCCGTTGATCCCATTCTCTTTGGTATTTGAATAGGTGCCCTGTGACC
109896 I          A      GCTGAGGTCCAGTGAGGTGCCTTTGCTTCT
109896 P     A    A      CGCGCCGAGGATCTTTCCGTTCATCTGCY
109896 P     G    A      ATGACGTGGCAGACGTCTTTCCGTTCATCTGCY
109896 T     A    A      AATGGCAGATGAACGGAAAGATGAAGCAAAGGCACCTCACTGGACCTCAGCAC
109896 T     G    A      AATGGCAGATGAACGGAAAGACGAAGCAAAGGCACCTCACTGGACCTCAGCAC
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GNA13
MULTIPLE SHORT GENE NAMES

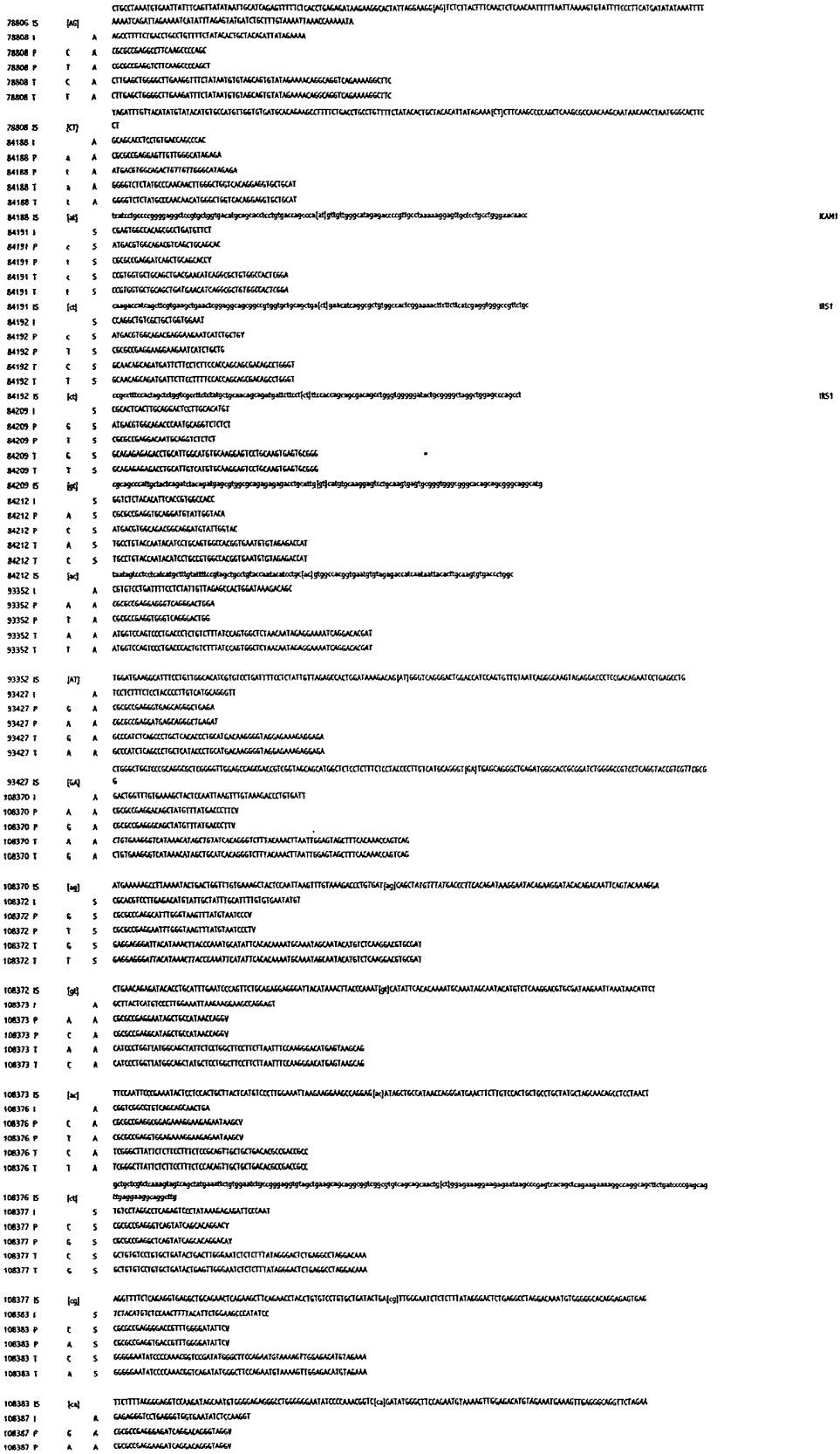


FIGURE 129G

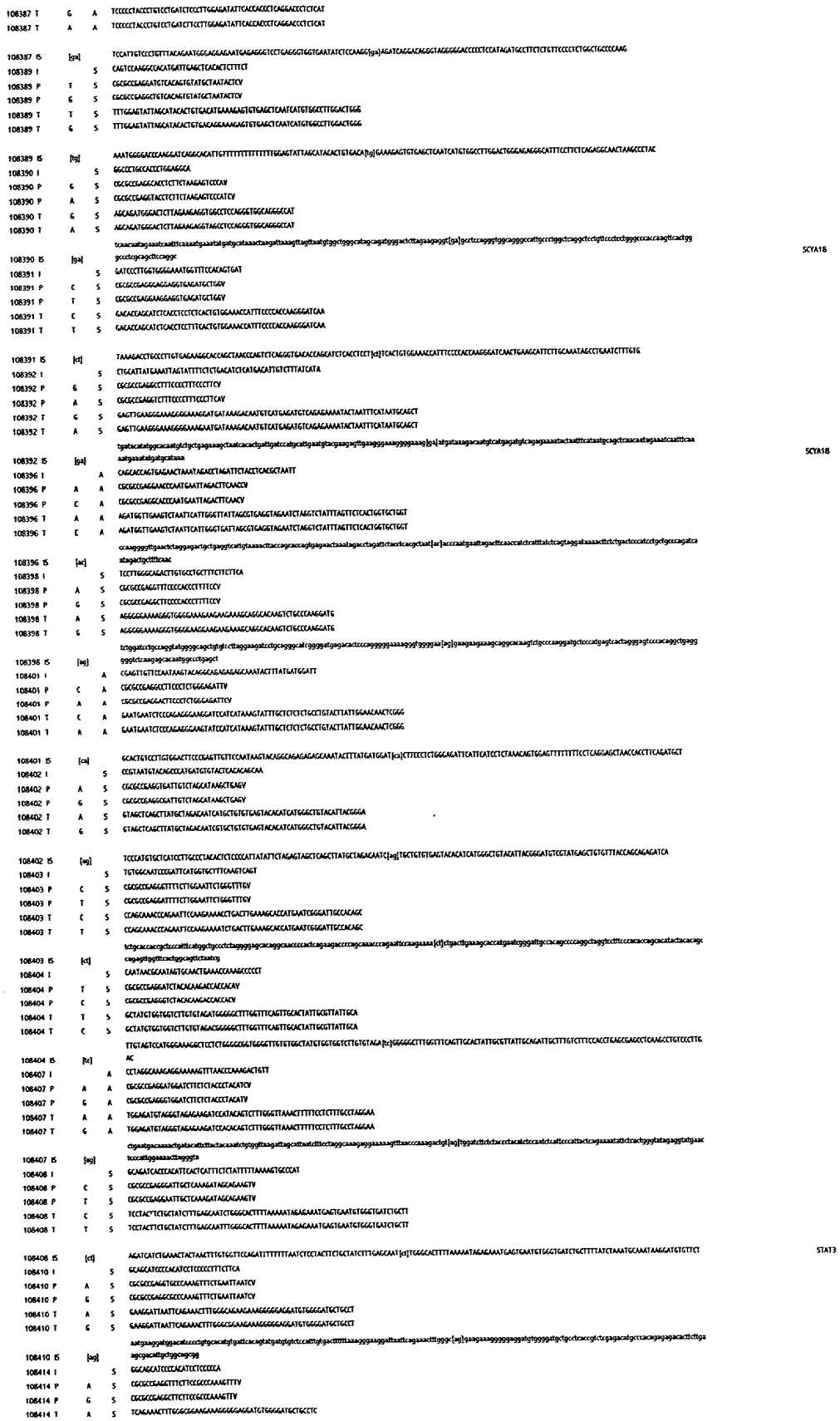
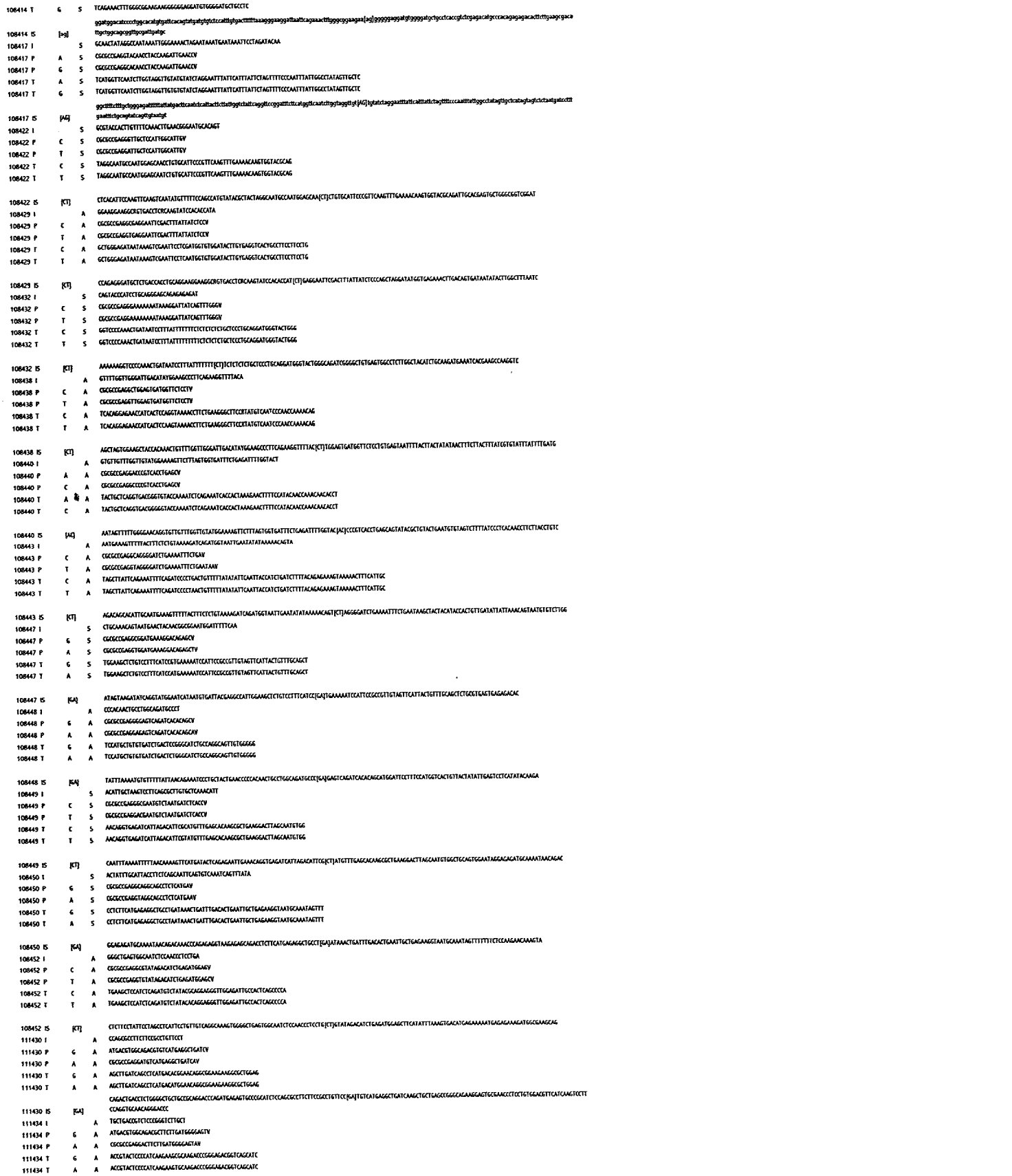

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108387 IS [ga] TCCATTGTCCCTGTTTACAGAATGGGAGGAGAATGAGAGGGTCCTGAGGGTGGTGAATATCTCCAAGG[ga]AGATCAGGACAGGGTAGGGGGACCCCCTCCATAGATGCCTTCTCTGTTCCCCTCTGGCTGCCCCAAG
108389 I S CAGTCCAAGGCCACATGATTGAGCTCACACTCTTTCT
108389 P T S CGCGCCCAAGGATGTCACAGTGTATGCTAATACTCV
108389 P G S CGCGCCCGAGGCTGTCACAGTGTATGCTAATACTCV
108389 T T S TTTGGAGTATTAGCATACACTGTGACATGAAAGAGTGTGAGCTCAATCATGTGGCCTTGGACTGGG
108389 T G S TTTGGAGTATTAGCATACACTGTGACAGGAAAAGAGTGTGAGCTCAATCATGTGGCCTTGGACTGGG
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108390 I S CGCGCCCAGGCACCTCTTCTAAGAGTCCCAV
108390 P G S CGCGCCCAGGCACCTCTTCTAAGAGTCCCAV
108390 P A S CGCGCCCAGGTACCTCTTCTAAGAGTCCCATCV
108390 T G S AGCAGATGGGACTCTTAGAAGAGGTGGCCTCCAGGGTGGCAGGGCCAT
108390 T A S AGCAGATGGGACTCTTAGAAGAGGTAGCCTCCAGGGTGGCAGGGCCAT
108390 IS [ga] tcaacaatagaaatcaatttcaaaatgaaaatatgatgcataaaactaagattaaagttagttaatgttggctgggcatagcagatgggacttagaagaggt[ga]gcctccagggtggcagggccattgccctggctcaggctcctgttccctcctgggcccaccaagttcactgg gcctcgcagcttccaggc SCYA18
108391 I S GATCCCTTGGTGGGGAAATGGTTTCCACAGTGAT
108391 P C S CGCGCCGAGGGAGCAGGTGAGATGCTGGV
108391 P T S CGCGCCGAGGAAGGAGGTGAGATGCTGGV
108391 T C S GACACCAGCATCTCACCTCCTCTCACTGTGGAAACCATTTCCCCACCAAGGGATCAA
108391 T T S GACACCAGCATCTCACCTCCTTTCACTGTGGAAACCATTTCCCCACCAAGGGATCAA
108391 IS [ct] TAAAGACCTGCCCTTGTGAGAAGGCACCAGCTAACCCAGTCTCAGGGTGACACCAGCATCTCACCTCCT[ct]TCACTGTGGAAACCATTTCCCCACCAAGGGATCAACTGAAGCATTCTTGCAAATAGCCTGAATCTTTGTG
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108392 P G S CGCGCCCGAGGCCTTTCCCCTTTCCCTTCV
108392 P A S CGCGCCGAGGTCTTTCCCCTTTCCCTTCAV
108392 T G S GAGTTGAAGGGAAAGGGGAAAGGATGATAAAGACAATGTCATGAGATGTCAGAGAAAATACTAATTTCATAATGCAGCT
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108396 P A A CGCGCCGAGGAACCCAATGAATTAGACTTCAACCV
108396 P C A CGCGCCGAGGCACCCAATGAATTAGACTTCAACCV
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108398 I S TCCTTGGGCAGACTTGTGCCTGCTTTCTTCTTCA
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108398 P G S CGCGCCGAGGCTTCCCCACCCTTTTCCV
108398 T A S AGGGGGAAAAGGGTGGGGGAAGAAGAAGAAAGCAGGCACAAGTCTGCCCAAGGATG
108398 T G S ACGGGGAAAAGGGTGGGGAAGAAGAAGAAAGCAGGCACAAGTCTGCCCAAGGATG
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108401 P C A CGCGCCGAGGCCTTCCCTCTGGGAGATTV
108401 P A A CGCGCCGAGCACTTCCCTCTGGGAGATTCV
108401 T C A GAATGAATCTCCCAGAGGGAAGGATCCATCATAAAGTATTTGCTCTCTCTGCCTGTACTTATTGGAACAACTCGGG
108401 T A A GAATGAATCTCCCAGAGGGAAGTATCCATCATAAAGTATTTGCTCTCTCTGCCTGTACTTATTGGAACAACTCGGG
108401 IS [ca] GCACTGTCCTTGTGGACTTCCCGAGTTGTTCCAATAAGTACAGGCAGAGAGAGCAAATACTTTATGATGGAT[ca]CTTCCCTCTGGGAGATTCATTCATCCTCTAAACAGTGGAGTTTTTTTTCCTCAGGAGCTAACCACCTTCAGATGCT
108402 I S CCGTAATGTACAGCCCATGATGTGTACTCACACAGCAA
108402 P A S CGCGCCGAGGTGATTGTCTAGCATAAGCTGAGV
108402 P G S CGCGCCGAGGCCATTGTCTAGCATAAGCTGAGV
108402 T A S GTAGCTCAGCTTATGCTAGACAATCATGCTGTGTGAGTACACATCATGGGCTGTACATTACGGGA
108402 T G S GTAGCTCAGCTTATGCTAGACAATCGTGCTGTGTGAGTACACATCATGGGCTGTACATTACGGGA
108402 IS [ag] TCCCATGTGCTCATCCTTGCCCTACACTCTCCCCATTATATTCTAGAGTAGCTCAGCTTATGCTAGACAATC[ag]TGCTGTGTGAGTACACATCATGGGCTGTACATTACGGGATGTCGTATGAGCTGTGTTTACCAGCAGAGATCA
108403 I S TGTGGCAATCCCGATTCATGGTGCTTTCAAGTCAGT
108403 P C S CGCGCCCAGGGTTTCTTGGAATTCTGGGTTTGV
108403 P T S CGCGCCGAGGATTTTCTTGGAATTCTGGGTTTGV
108403 T C S CCAGCAAACCCAGAATTCCAAGAAAACCTGACTTGAAAGCACCATGAATCGGGATTGCCACAGC
108403 T T S CCAGCAAACCCAGAATTCCAAGAAAATCTGACTTGAAAGCACCATGAATCGGGATTGCCACAGC
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108404 I S CAATAACGCAATAGTGCAACTGAAACCAAAGCCCCCT
108404 P T S CGCGCCGAGGATCTACACAAGACCACCACAV
108404 P C S CGCGCCGAGGGTCTACACAAGACCACCACV
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108404 T C S GCTATGTGGTGGTCTTGTGTAGACGGGGGCTTTGGTTTCAGTTGCACTATTGCGTTATTGCA
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108407 I A CCTAGGCAAACAGGCAAAAGTTTAACCCAAAGACTGTT
108407 P A A CGCGCCGAGGATGGATCTTCTCTACCCTACATCV
108407 P G A CGCGCCGAGGGTGGATCTTCTCTACCCTACATV
108407 T A A TGGAGATGTAGGGTAGAGAAGATCCATACAGTCTTTGGGTTAAACTTTTTCCTCTTTGCCTAGGAA
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108408 I S GCAGATCACCCACATTCACTCATTTCTCTATTTTTAAAAGTGCCCAT
108408 P C S CGCGCCCGAGGGATTGCTCAAAGATAGCAGAAGTV
108408 P T S CGCGCCGAGGAATTGCTCAAAGATAGCAGAAGTV
108408 T C S TCCTACTTCTGCTATCTTTGAGCAATCTGGGCACTTTTAAAAATAGAGAAATGAGTGAATGTGGGTGATCTGCTT
108408 T T S TCCTACTTCTGCTATCTTTGAGCAATTTGGGCACTTTTAAAAATAGAGAAATGAGTGAATGTGGGTGATCTGCTT
108408 IS [ct] AGATCATCTGAAACTACTAACTTTGTGGTTCCAGATTTTTTTTAATCTCCTACTTCTGCTATCTTTGAGCAAT[ct]TGGGCACTTTTAAAAATAGAGAAATGAGTGAATGTGGGTGATCTGCTTTTTATCTAAATGCAAATAAGGATGTGTTCT STAT3
108410 I S GCAGCATCCCCACATCCTCCCCCTTTCTTCA
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108410 P G S CGCGCCGAGGCGCCCAAAGTTTCTGAATTAATCV
108410 T A S GAAGGATTAATTCAGAAACTTTGGGCAGAAGAAAGGGGGAGGATGTGGGGATGCTGCCT
108410 T G S GAAGGATTAATTCAGAAACTTTGGGCGGAAGAAAGGGGGAGGATGTGGGGATGCTGCCT
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108414 I S GGCAGCATCCCCACATCCTCCCCCA
108414 P A S CGCGCCGAGGTTTCTTCCGCCCAAAGTTTV
108414 P G S CGCGCCGAGGCTTCTTCCGCCCAAAGTTTV
108414 T A S TCAGAAACTTTGGGCGGAAGAAAGGGGGAGGATGTGGGGATGCTGCCTC

FIGURE 129G



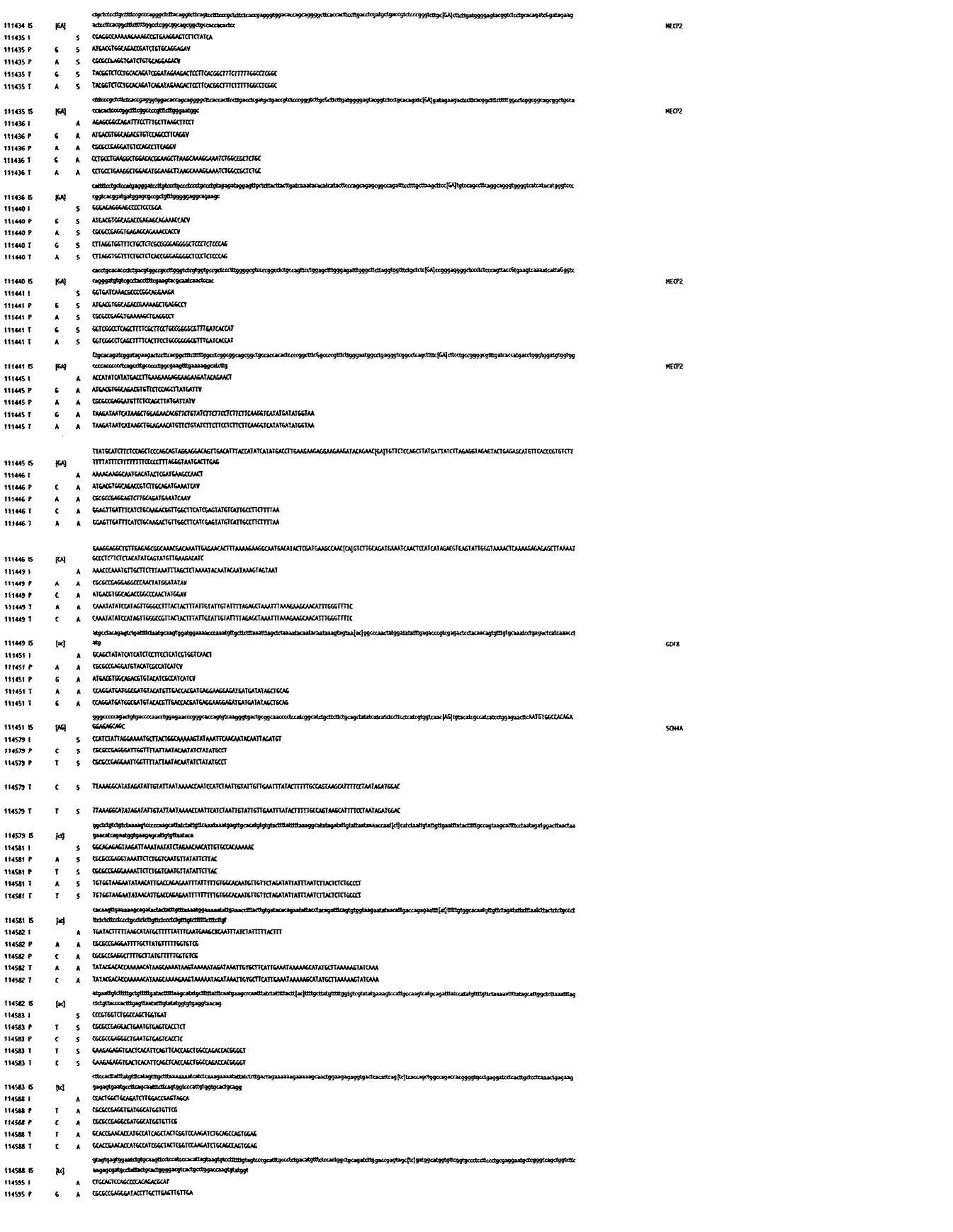
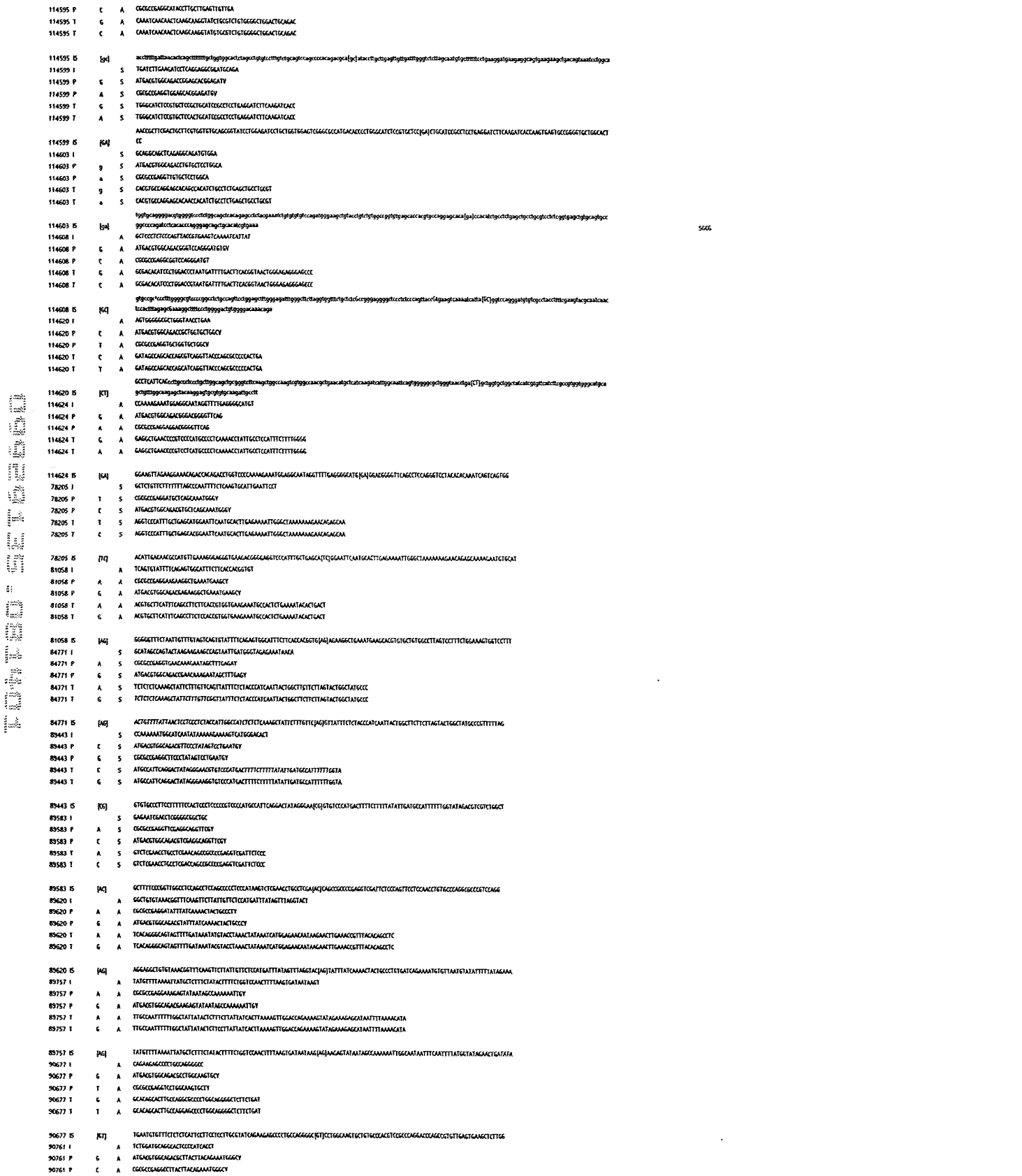


FIGURE 129G



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FIGURE 129G

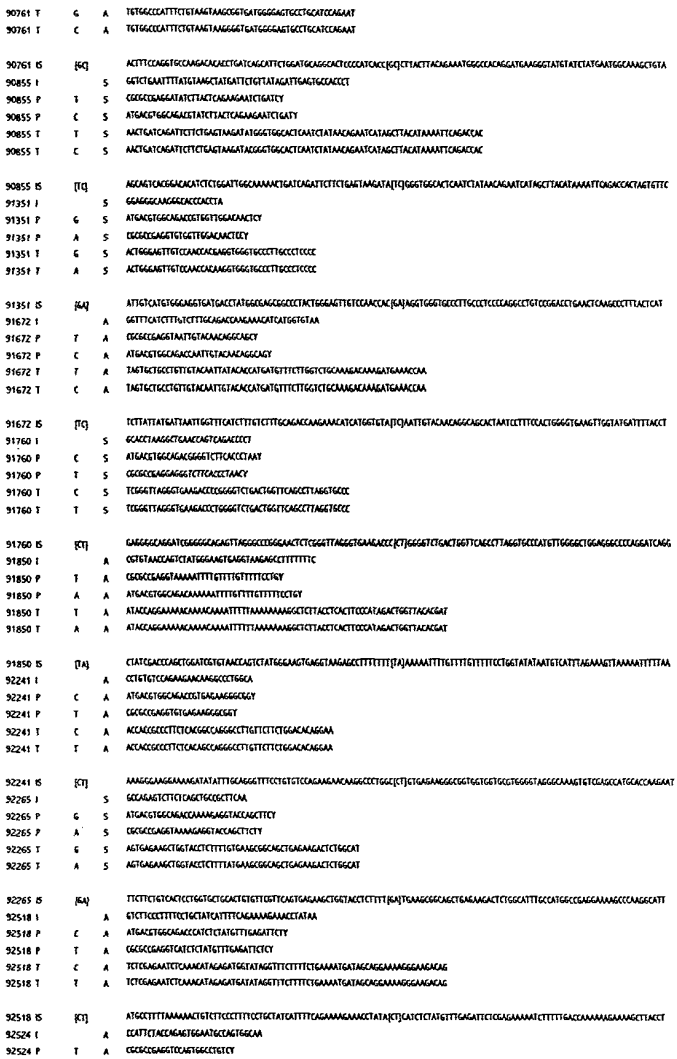


FIGURE 129G

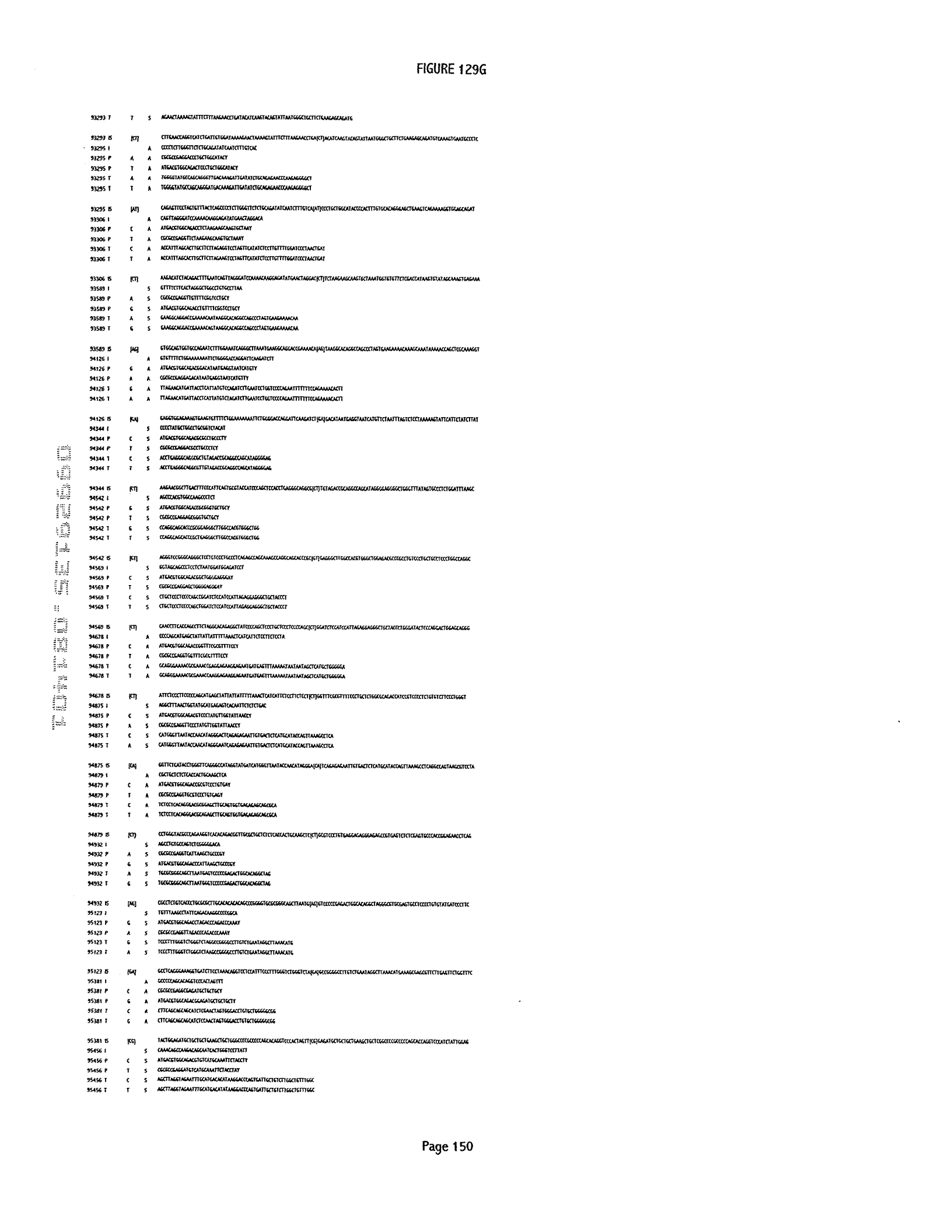
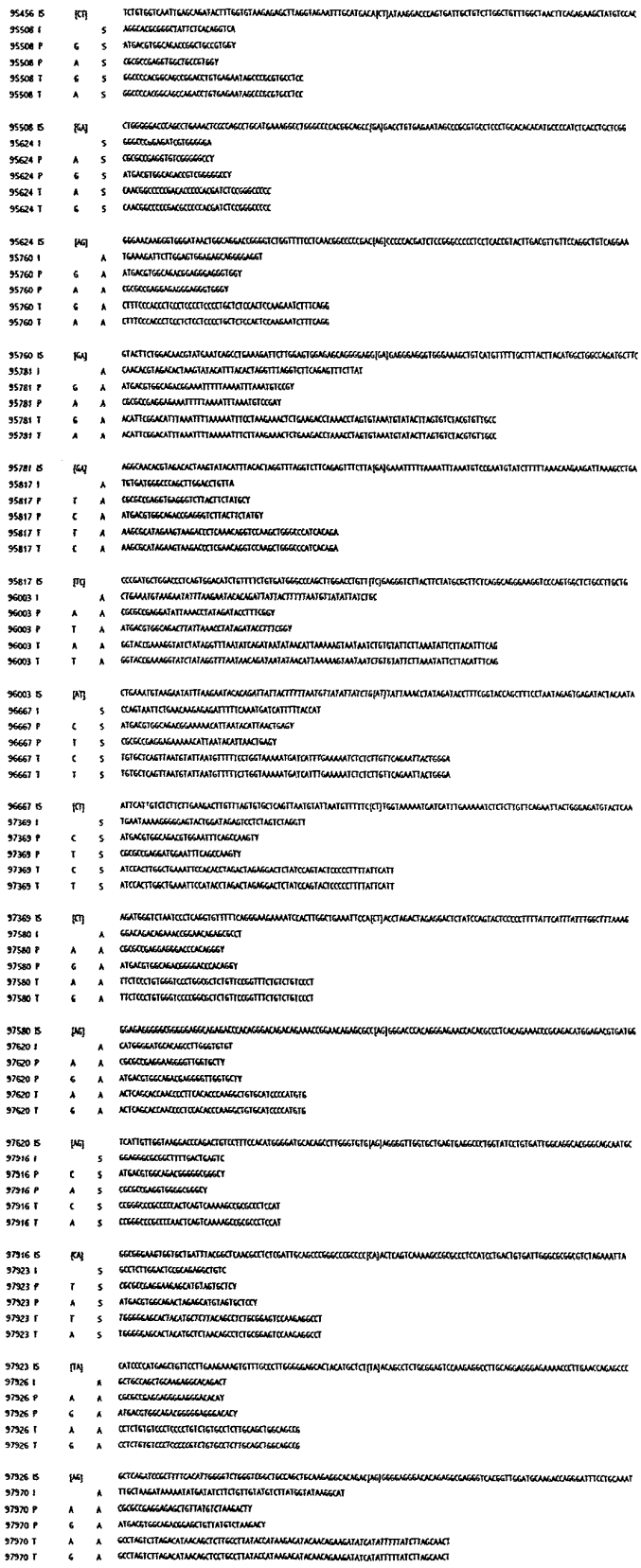
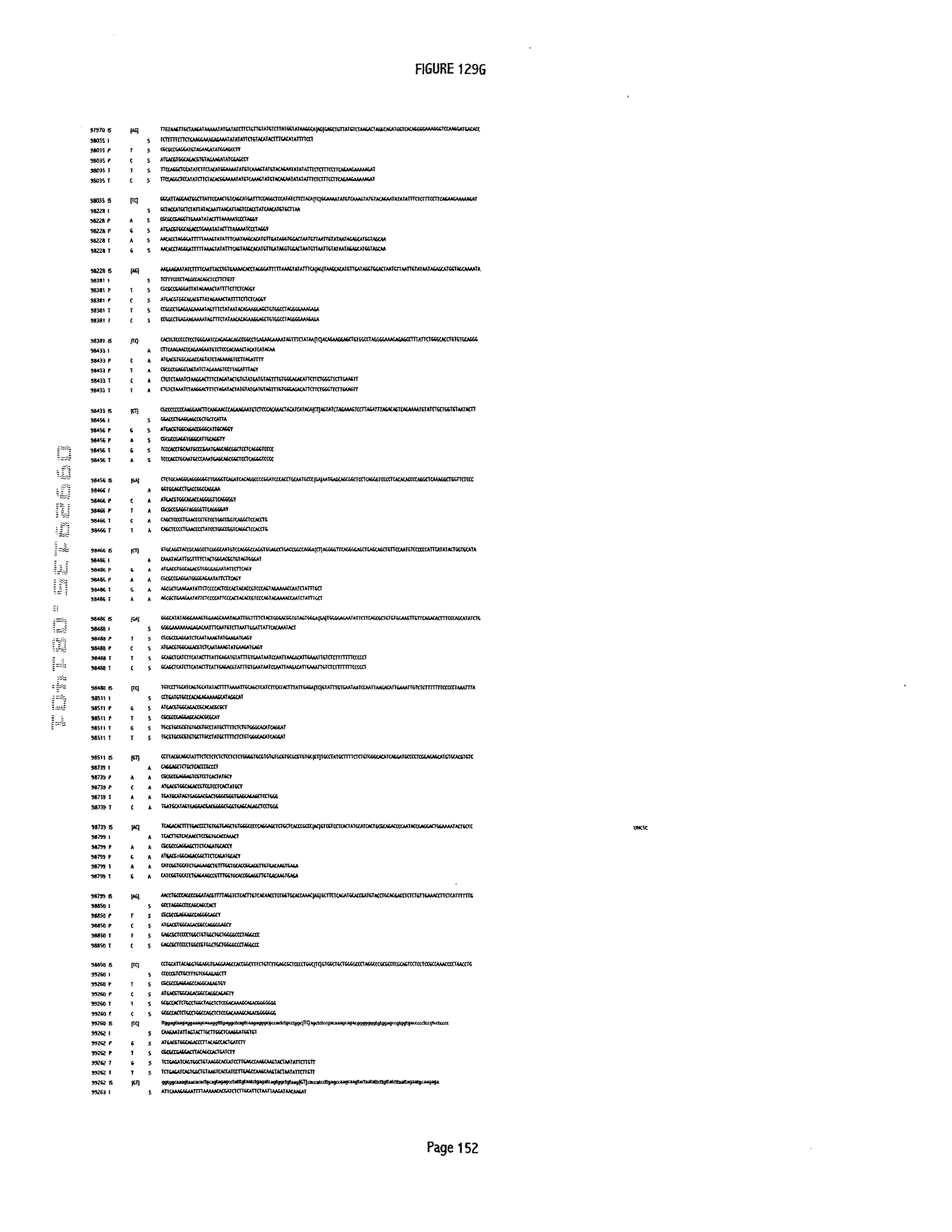
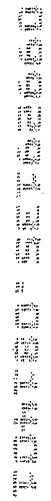
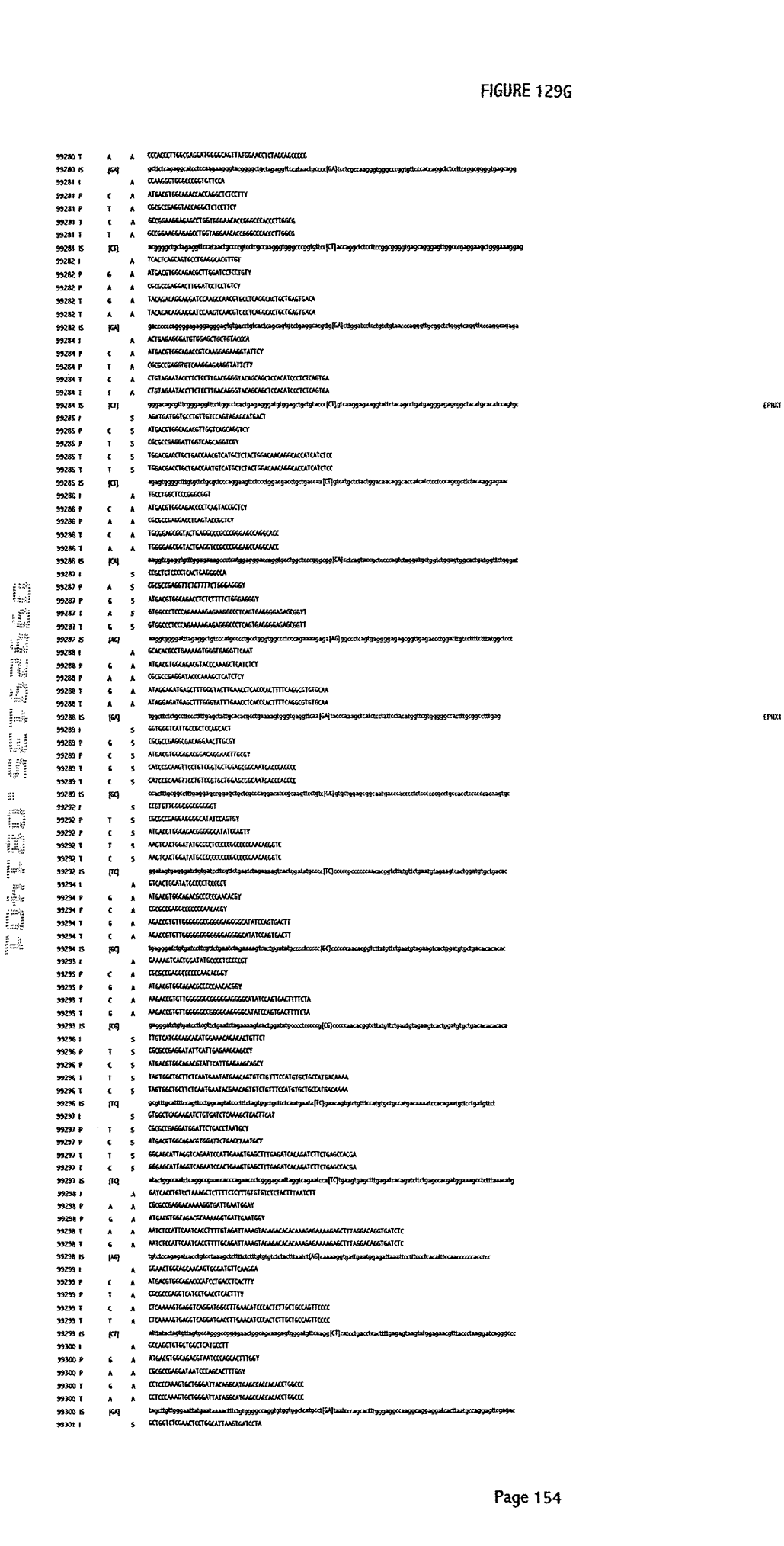

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93295 P A A CGCGCCGAGGACCCTGCTGGCATACT
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93306 I A CAGTTAGGGATCCAAAACAAGGAGATATGAACTAGGACA
93306 P C A ATGACGTGGCAGACCTCTAAGAAGCAAGTGCTAAT
93306 P T A CGCGCCGAGGTTCTAAGAAGCAAGTGCTAAAY
93306 T C A ACCATTTAGCACTTGCTTCTTAGAGGTCCTAGTTCATATCTCCTTGTTTTGGATCCCTAACTGAT
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94126 P A A CGCGCCGAGGAGACATAATGAGGTAATCATGTY
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94344 P C S ATGACGTGGCAGACGCCCTGCCCTY
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94569 P T S CGCGCCGAGGAGCTGGGGAGGGAY
94568 T C S CTGCTCCCTCCCCAGCTGGATCTCCATCCATTAGAGGAGGGCTGCTACCCT
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94875 T A S CATGAGTTAATACCAACATAGGGAATCAGAGAGAATTGTGACTCTCATGCATACCAGTTAAAGCCTCA
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94879 P C A ATGACGTGGCAGACCGCGTCCCTGTGAY
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94879 T C A TCTCCTCACAGGGACGCGGAGCTTGCAGTGGTGACAGAGCAGCAGCGCA
94879 T T A TCTCCTCACAGGGACGCAGAGCTTGCAGTGGTGACAGAGCAGCAGCGCA
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94932 P A S CGCGCCGAGGTCATTAAGCTGCCCGY
94932 P G S ATGACGTGGCAGACCCATTAAGCTGCCCGY
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94932 T G S TGCGCGGGCAGCTTAATGAGTCCCCCGAGACTGGCACAGGCTAG
94932 IS [AG] CGCCTCTGTCACCCTGCGCGCTTGCACACACACAGCCCCGGGGTGCGCGGGGCAGCTTAATG[AG]GTCCCCCGAGACTGGCACAGGCTAGGCAGTGGCAGTGCCCCCTGTGTATGATCCCCTC
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95381 I A GCCCCCAGCACAGGTCCCACTAGTTT
95381 P C A CGCGCCGAGGCGAGATGCTGCTGCY
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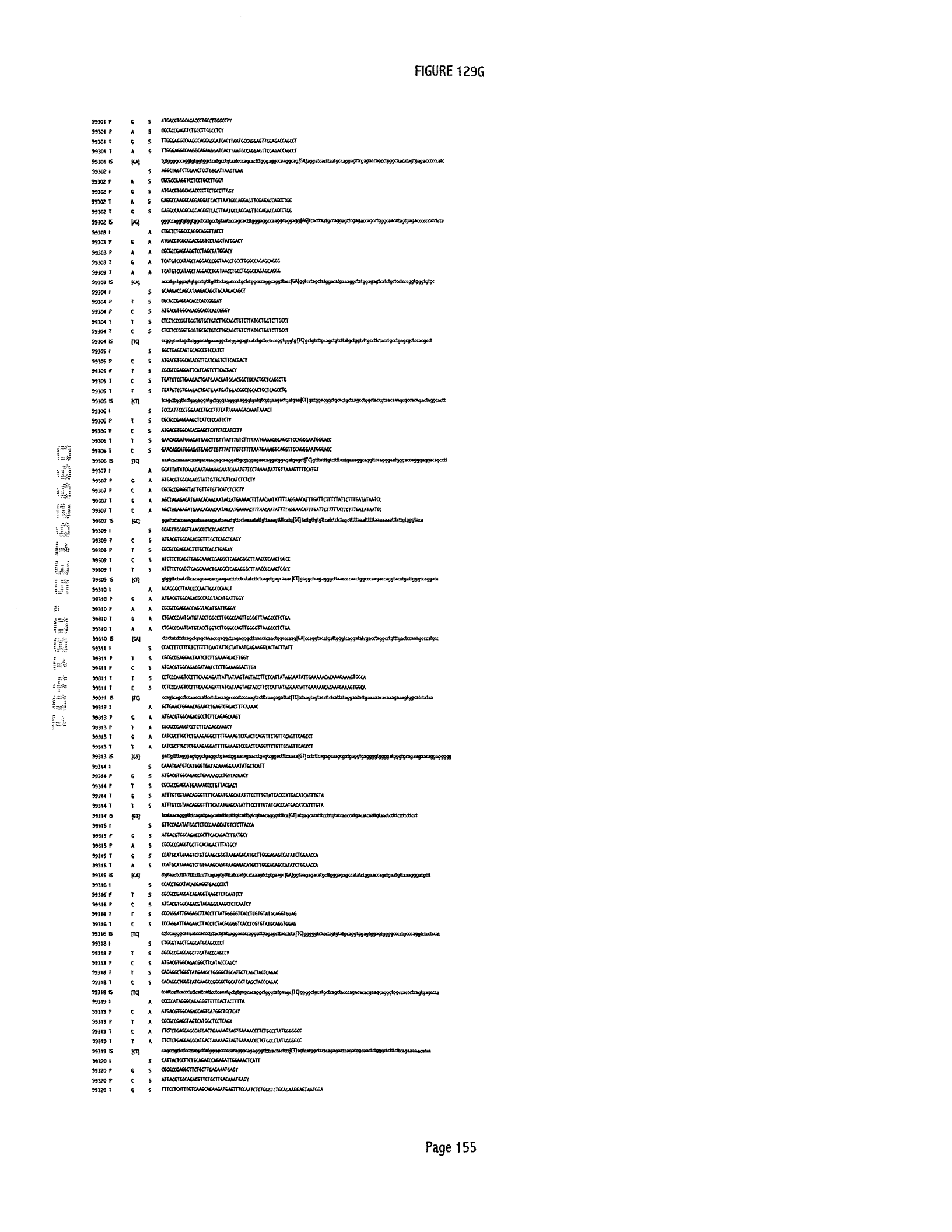
FIGURE 129G

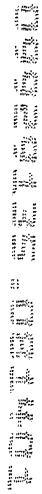


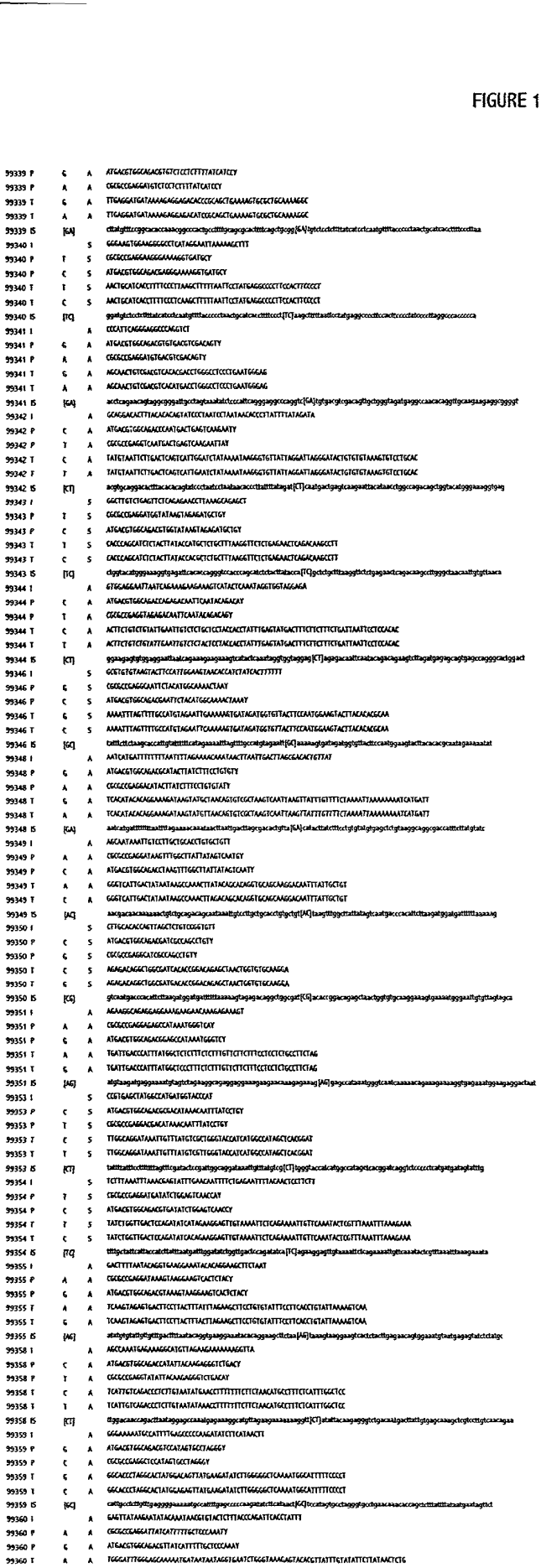












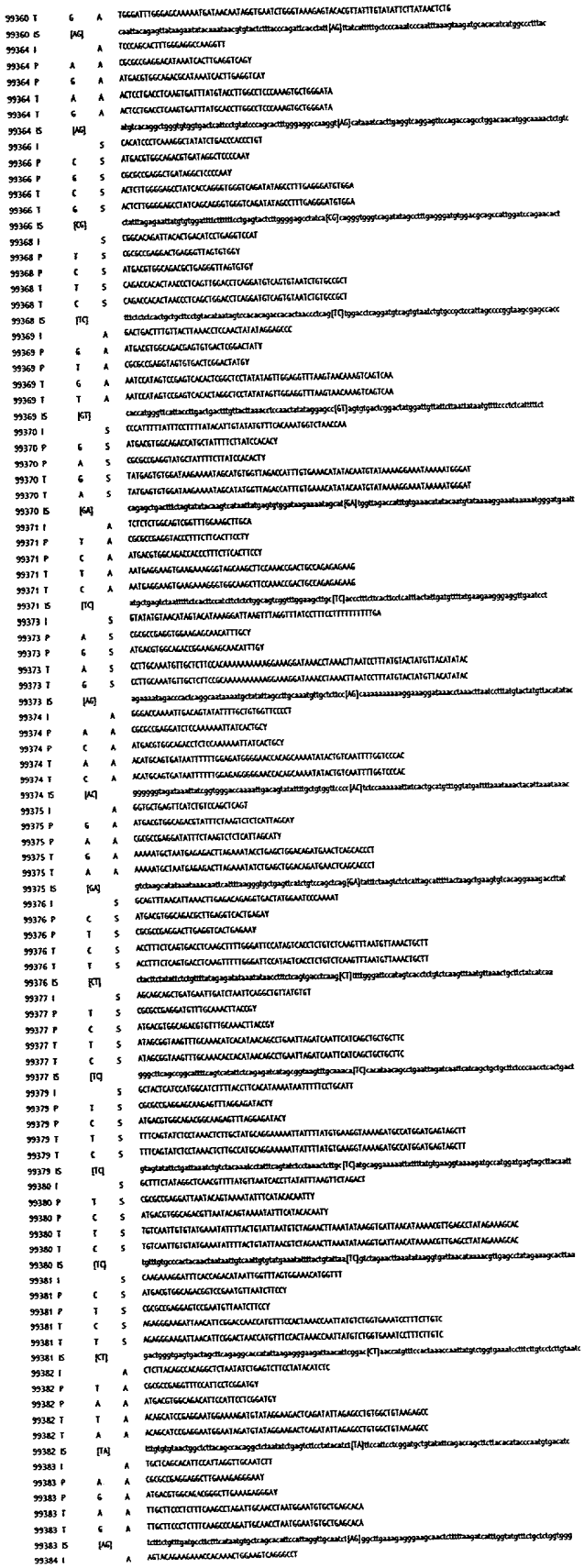


FIGURE 129G

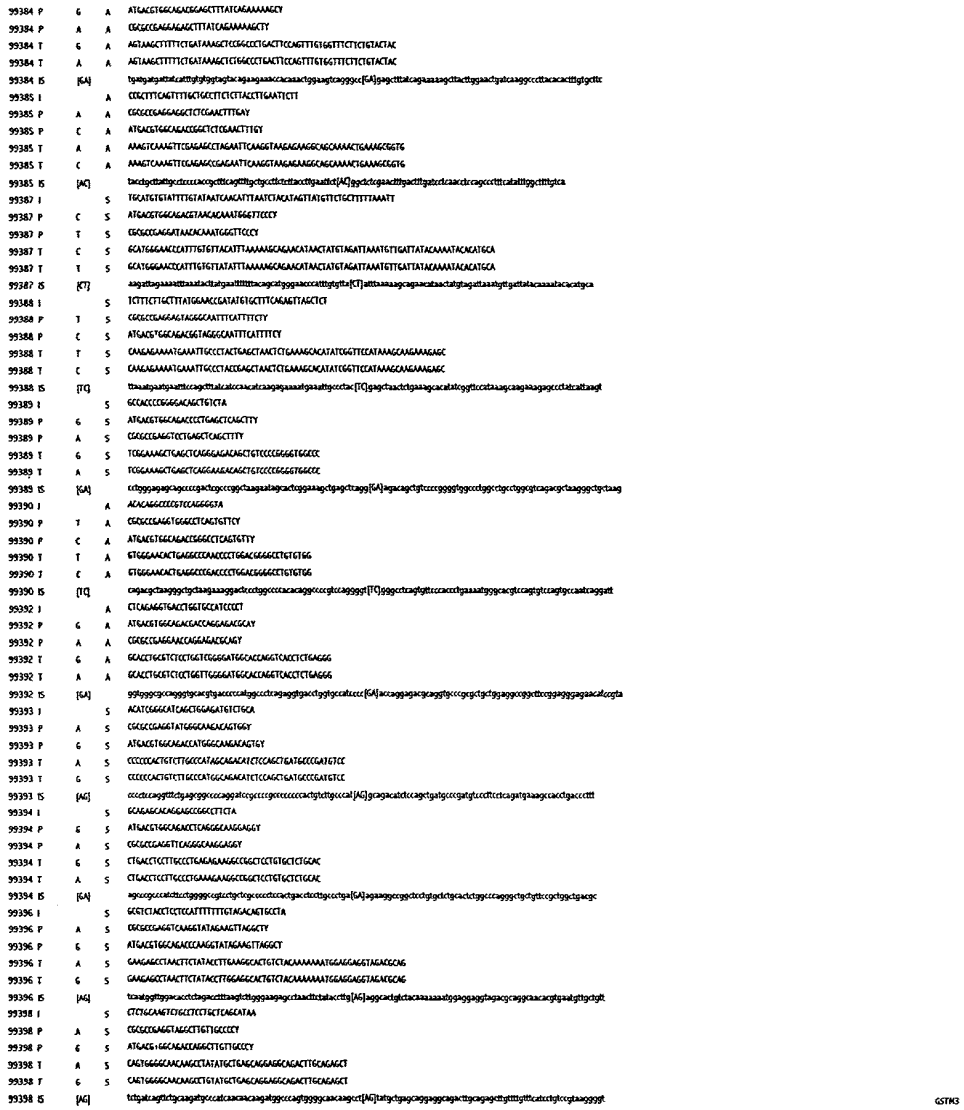


FIGURE 129G

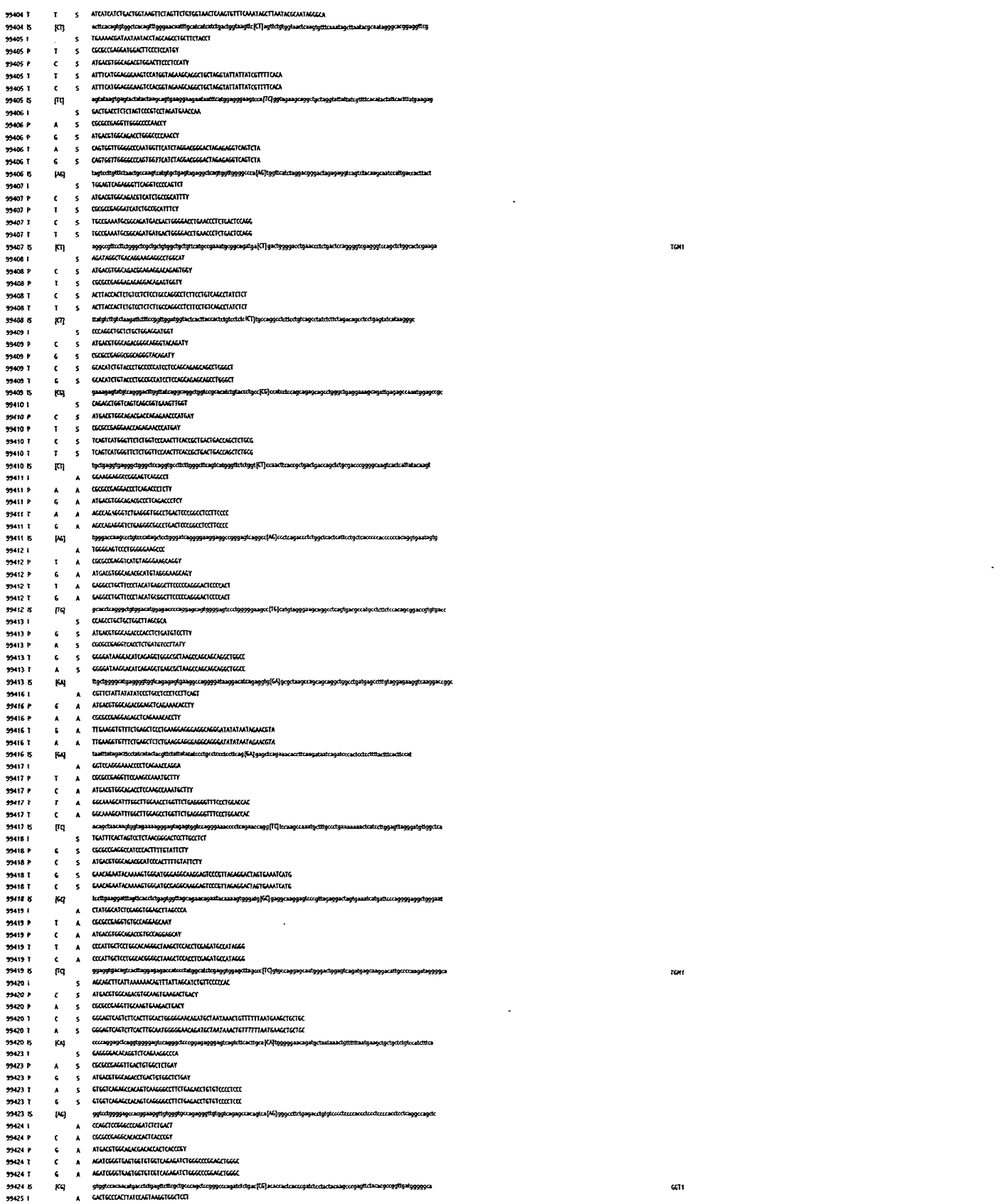
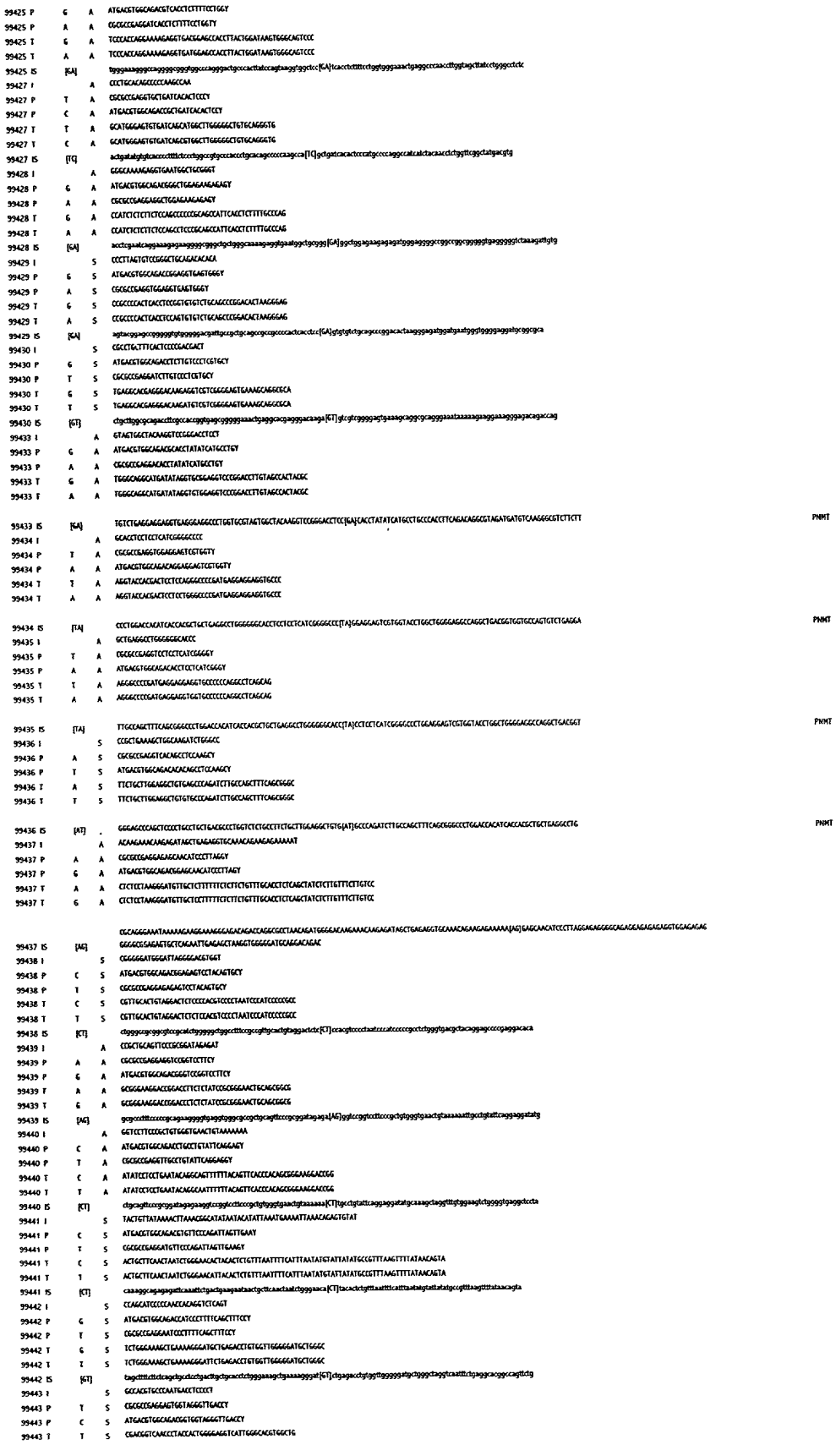
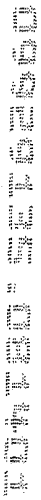


FIGURE 129G





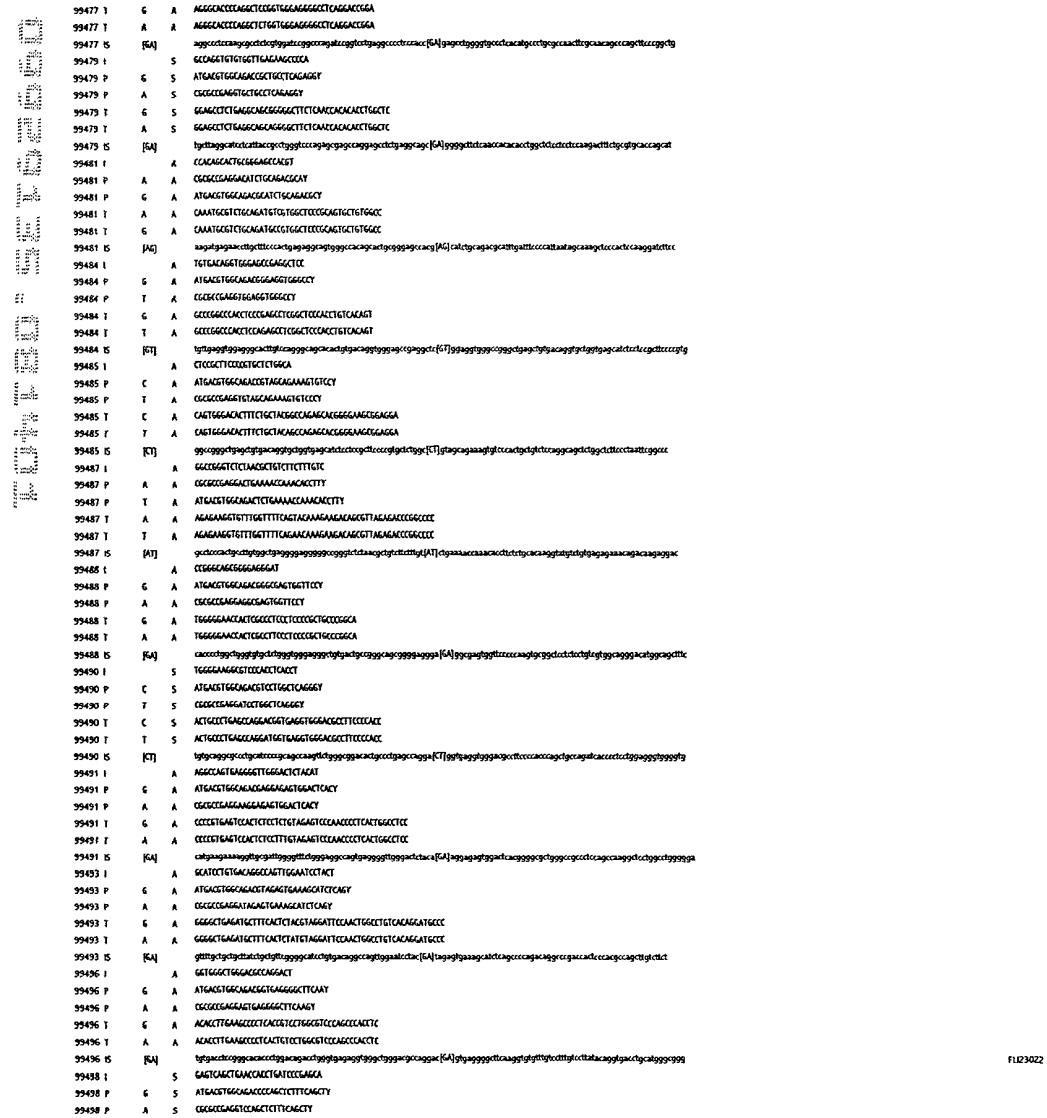


FIGURE 129G

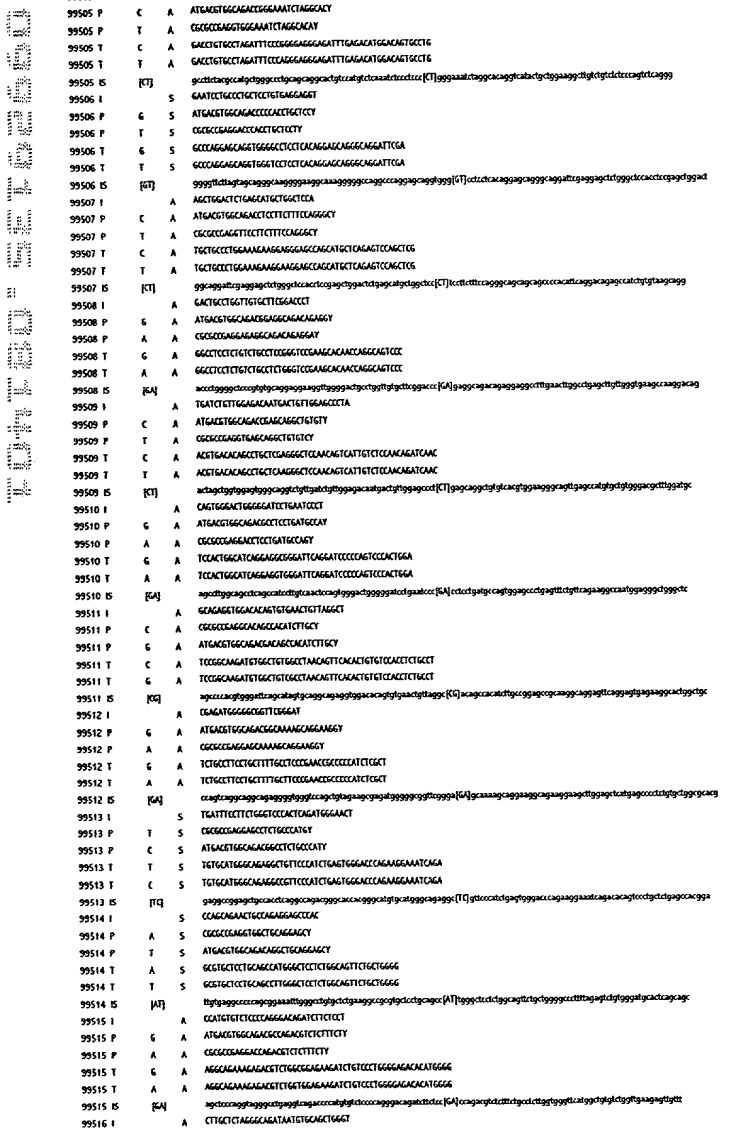
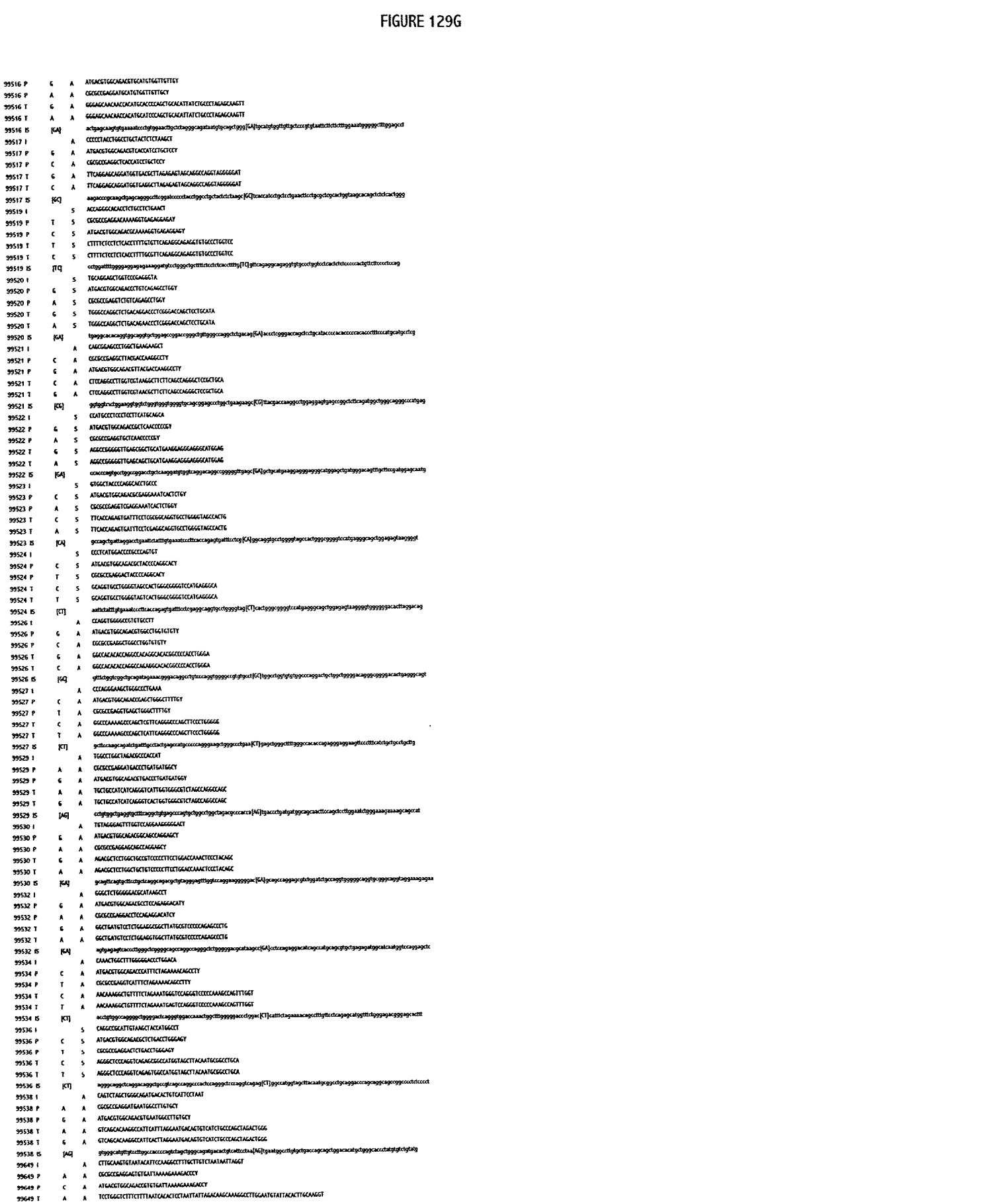
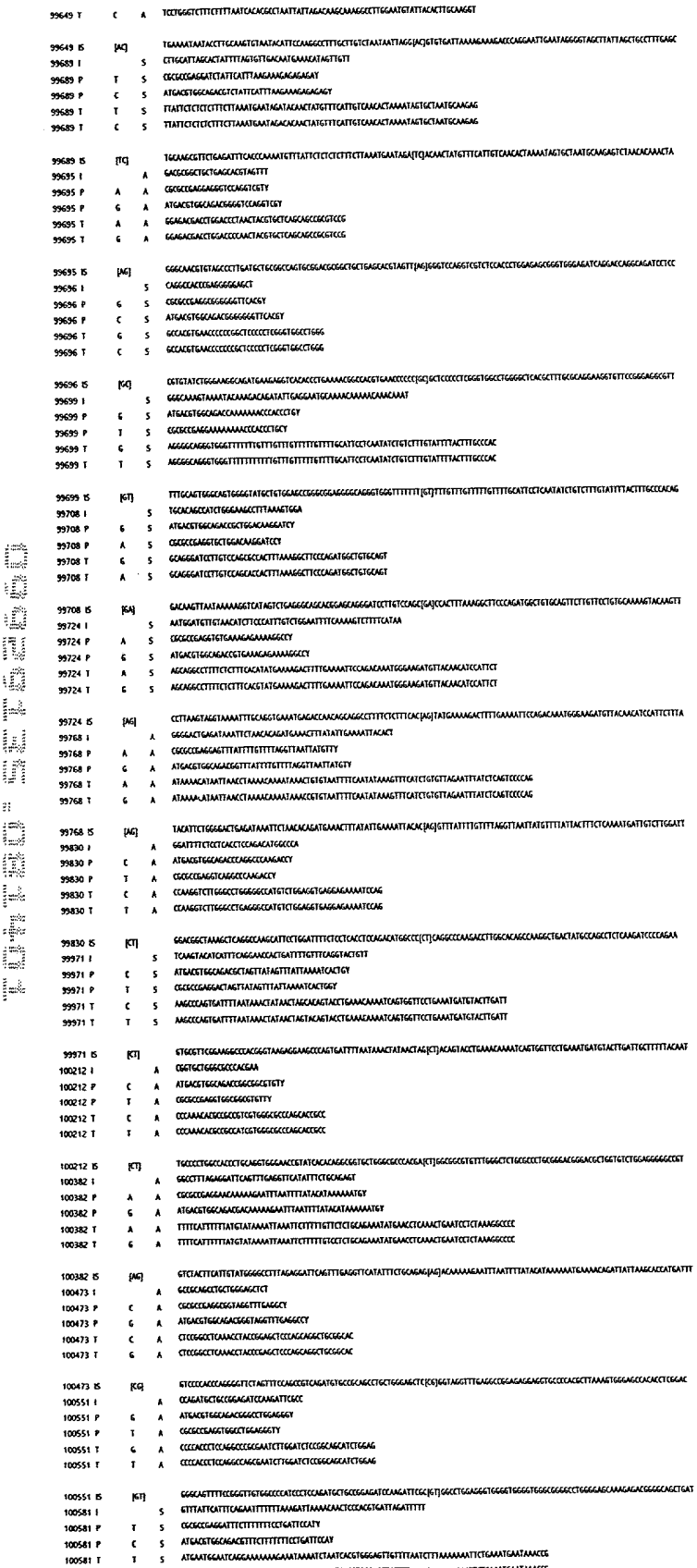


FIGURE 129G


99516 P G A ATGACGTGGCAGACGTGCATGTGGTTGTTGY
99516 P A A CGCGCCGAGGATGCATGTGGTTGTTGCY
99516 T G A GGGAGCAACAACACATGCACCCCAGCTGCACATTATCTGCCCTAGAGCAAGTT
99516 T A A GGGAGCAACAACACATGCATCCCAGCTGCACATTATCTGCCCTAGAGCAAGTT
99516 IS [GA] actgagcaagtgtgtaaaatcccttgtggaacttgcctaagggcagataatgtgcagctgggg[GA]ttgcatgtggttgttgctccctgtgtaattctttctttttggaaatgggggctttggagccct
99517 I A CCCCCTACCTGGCCTGCTACTCTCTAAGCT
99517 P G A ATGACGTGGCAGACGTCACCATCCTGCTCCY
99517 P C A CGCGCCGAGGCTCACCATCCTGCTCCY
99517 T G A TTCAGGAGCAGGATGGTGACGCTTAGAGAGTAGCAGGCCAGGTAGGGGGAT
99517 T C A TTCAGGAGCAGGATGGTGAGGCTTAGAGAGTAGCAGGCCAGGTAGGGGGAT
99517 IS [GC] aagacccgcaagctgagcagggcctkcggatccccctacctggcctgctacktctaagc[GC]tcacatcctgctctgaacttcctgcgctcgcactggttaagcacagctctctcactggg
99519 I S ACCAGGGCACACCTCTGCCTCTGAACT
99519 P T S CGCGCCGAGGACAAAGGTGAGAGGAGAY
99519 P C S ATGACGTGGCAGACGCAAAAGGTGAGAGGAGY
99519 T T S CTTTTCTCCTCTCACCTTTTGTGTTCAGAGGCAGAGGTGTGCCCTGGTCC
99519 T C S CTTTTCTCCTCTCAACTTTTGGGTTCAGAGGCAGAGGTGTGCCCTGGTCC
99519 IS [TC] cctggattttgggggaggagaaaggatgtcctgggctgctttctcctctcacctttttg[TC]gttcagaggcagaggtgtgccctgctcctcacktctcccctccag
99520 I S TGCAGGAGCTGGTCCCCGAGGGTA
99520 P G S ATGACGTGGCAGACCCTGTCAGAGCCTGGY
99520 P A S CGCGCCGAGGTCTGTCAGAGCCTGGY
99520 T G S TGGGCCAGGCTCTGACAGAACCCTGGGACCAGCTCCTGCATA
99520 T A S TGGGCCAGGCTCTGACAGAACCCTCGGGACCAGCTCCTGCATA
99520 IS [GA] tgaggcacacaggtggcaggtgctggagccggaccgggctgttgggccaggcktctgacag[GA]accctcgggaccagctcctgcatacccccacacccccacaccttttcccatgcatgcctcg
99521 I A CAGCGGAGCCCTGGCTGAAGAAGCT
99521 P C A CGCGCCGAGGCTTNCSACCAAGGCCTY
99521 P G A ATGACGTGGCAGACGTTACGACCAAGGCCTY
99521 T C A CTCCAGGCCTTGGTGCTAAGGCTTCTTCAGCCAGGGCTCCGCTGCA
99521 T G A CTCCAGGCCTTGGTGCTAACGCTTCTTCAGCCAGGGCTCCGCTGCA
99521 IS [CG] ggtggtcctggaaggtggtctggtgggtgggtgcagcggagccctggctgaagaagc[CG]ttacgaccaaggcctggaggagtgagccggctctcagatggctgggcagggcccatgag
99522 I S CCATGCCCTCCCTCCTTCATGCAGCA
99522 P G S ATGACGTGGCAGACCGCTCAACCCCGY
99522 P A S CGCGCCGAGGTGCTCAACCCCGY
99522 T G S AGGCCGGGGGTTGAGCGGCTGCATGAAGGAGGGAGGGCATGGAG
99522 T A S AGGCCGGGGGTTGAGCAGCTGCATGAAGGAGGGAGGGCATGGAG
99522 IS [GA] ccacccagtgcctggccggcacctgctcaaggatgtggtcaggacaggccgggggttgagc[GA]gctgcatgaaggagggagggcatggagctgatgggcacagttgcttccgatggagcaatg
99523 I S GTGGCTACCCCAGGCAACTGCCC
99523 P C S ATGACGTGGCAGACGCGAGGAAATCACTCTGY
99523 P A S CGCGCCGAGGTCGAGGAAATCACTCTGGY
99523 T C S TTCACCAGAGTGATTTCCTCGCGGCAGGTGCCTGGGGTAGCCACTG
99523 T A S TTCACCAGAGTGATTTCCTCGAGGCAGGTGCCTGGGGTAGCCACTG
99523 IS [CA] gccagctgattaggcactgaattctatttgtgaaatcccttcaccagagtgatttcctcg[CA]ggcaggtgcctggggtagccactgggcgggtccatgagggcagctggagagtaaggggt
99524 I S CCCTCATGGACCCCGCCCAGTGT
99524 P C S ATGACGTGGCAGACGCTACCCCAGGCACY
99524 P T S CGCGCCGAGGACTACCCCAGGCACY
99524 T C S GCAGGTGCCTGGGGTAGCCACTGGGCGGGGTCCATGAGGGCA
99524 T T S GCAGGTGCCTGGGGTAGTCACTGGGCGGGGTCCATGAGGGCA
99524 IS [CT] aatttctatttgtgaaatccctcaccagagtgatttcctcgaggcaggtgcctggggtag[CT]cactgggcgggtccatgagggcagctggagagtaaggggtgggggacacttagacag
99526 I A CCAGGTGGGGCCGTGTGCCTT
99526 P G A ATGACGTGGCAGACGTGGCCTGGTGTGTY
99526 P C A CGCGCCGAGGCTGGCCTGGTGTGTY
99526 T G A GGCCACACACCAGGCCACAGGCACACGCCCCACCTGGGA
99526 T C A GGCCACACACCAGGCCAGAGGCACACGCCCCACCTGGGA
99526 IS [GC] gttctcggctcggctgcagatagaaacgggacaggcctgtcccaggtgggggcgtgtgcct[GC]tggcctggtgtgtggcccaggcactgctggctggggacagggcgggacacttgagggcagt
99527 I A CCCAGGGAAGCTGGGCCCTGAAA
99527 P C A ATGACGTGGCAGACCGAGCTGGGCTTTTGY
99527 P T A CGCGCCGAGGTGAGCTGGGCTTTTGY
99527 T C A GGCCCAAAAGCCCAGCTCGTTCAGGGCCCAGCTTCCCTGGGGG
99527 T T A GGCCCAAAAGCCCAGCTCATTCAGGGCCCAGCTTCCCTGGGGG
99527 IS [CT] gcttccaagcagatctgatttgccctactgagccatgccccaggggaagctgggccctgaa[CT]gagctgggctttgggccacaccagagggaggaagttcccttttcatctgctgccttg
99529 I A TGGCCTGGCTAGAGCCCACCAT
99529 P A A CGCGCCGAGGATGACCCTGATGATGGCY
99529 P G A ATGACGTGGCAGACGTGACCCTGATGATGGY
99529 T A A TGCTGCCATCATCAGGGTCATTGGTGGGGCGTCTAGCCAGGCCAGC
99529 T G A TGCTGCCATCATCAGGGTCACTGGTGGGCGTCTAGCCAGGCCAGC
99529 IS [AG] cctgtggctgaggtgctttcaggctgtgagcccagtgctggcctggctagacgcccacca[AG]tgaccctgatgatggcagcaactccagctccttggaatctgggaaaagaaagcagccat
99530 I A TGTAGGGAGTTTGGTCCAGGAAGGGGGACT
99530 P G A ATGACGTGGCAGACGGCAGCCAGGAGCY
99530 P A A CGCGCCGAGGAGCAGCCAGGAGCY
99530 T G A AGACGCTCCTGGCTGCCGTCCCCCTTCCTGGACCAAACTCCCTACAGC
99530 T A A AGACGCTCCTGGCTGCTGTCCCCCTTCCTGGACCAAACTCCCTACAGC
99530 IS [GA] gcagttcagtgcttccgctcaggcagacgctgtcagggagtttggtccaggaaggggggac[GA]gcagccaggagcgtctggatctgccaggtgggggcagggtgcgggcaggtaggaaagagaa
99532 I A GGGCTCTGGGGGACGCATAAGCCT
99532 P G A ATGACGTGGCAGACGCCTCCAGAGGACATY
99532 P A A CGCGCCGAGGACCTCCAGAGGACATCY
99532 T G A GGCTGATGTCCTCTGGAGCCGGCTTATGCGTCCCCCAGAGCCCTG
99532 T A A GGCTGATGTCCTCTGGAGGTGGCTTATGCGTCCCCCAGAGCCCTG
99532 IS [GA] agtgagagtccaccctgggctgggggcagccaggccagggcktcgggggacgcatcaagcc[GA]cctccagaggacatccagccatgcagcgtgctgagagatggcatcaatggtccaggagctc
99534 I A CAAACTGGCTTTGGGGGAGCCTGGACA
99534 P C A ATGACGTGGCAGACCCATTTCTAGAAAACAGCCTY
99534 P T A CGCGCCGAGGTCATTTCTAGAAAACAGCCTTY
99534 T C A AACAAAGGCTGTTTTCTAGAAATGGGTCCAGGGTCCCCCAAAGCCAGTTTGGT
99534 T T A AACAAAGGCTGTTTTCTAGAAATGAGTCCAGGGTCCCCCAAAGCCAGTTTGGT
99534 IS [CT] acctgtggccagggggctgggggactcagggtggaccaaactggctttgggggaccctggac[CT]catttctagaaaacagccttgttctccagagcatggttttctgggagacgggagccacttt
99536 I S CAGCCGCATTGTAAGCTACCATGGCCT
99536 P C S ATGACGTGGCAGACGCTCTGACCTGGGAGY
99536 P T S CGCGCCGAGGACTCTGACCTGGGAGY
99536 T C S AGGGCTCCCAGGTCAGAGTGGCCATGGTAGCTTACAATGCGGCCTGCA
99536 T T S AGGGCTCCCAGGTCAGAGTGGCCATGGTAGCTTACAATGCGGCCTGCA
99536 IS [CT] agggcagggctcaggacaggctgccgtcagccagggcccacttccagggtcccaggtcagag[CT]ggccatggtagcttacaatgcggccctgcagcaggcagccggcccctctcccct
99538 I A CAGTCTAGCTGGGCAGATGACACTGTCATTCCTAAT
99538 P A A CGCGCCCAGGATGAATGGCCTTGTGCY
99538 P G A ATGACGTGGCAGACGTGAATGGCCTTGTGCY
99538 T A A GTCAGCACAAGGCCATTCATTTAGGAATGACAGTGTCATCTGCCCAGCTAGACTGGG
99538 T G A GTCAGCACAAGGCCATTCACTTAGGAATGACAGTGTCATCTGCCCAGCTAGACTGGG
99538 IS [AG] gtgggcatgttgtccttggccacccccagtctagctgggcagatgacactgtcattcctaa[AG]tgaatggccttgtgctgaccagcagctggacacatgctgggcaccctatgtgtctgtatg
99649 I A CTTGCAAGTGTAATACATTCCAAGGCCTTTGCTTGTCTAATAATTAGGT
99649 P A A CGCGCCGAGGAGTGTGATTAAAAGAAAGACCCY
99649 P C A ATGACGTGGCAGACGTGTGATTAAAAGAAAGACCY
99649 T A A TCCTGGGTCTTTCTTTTAATCACACTCCTAATTATTAGACAAGCAAAGGCCTTGGAATGTATTACACTTGCAAGGT



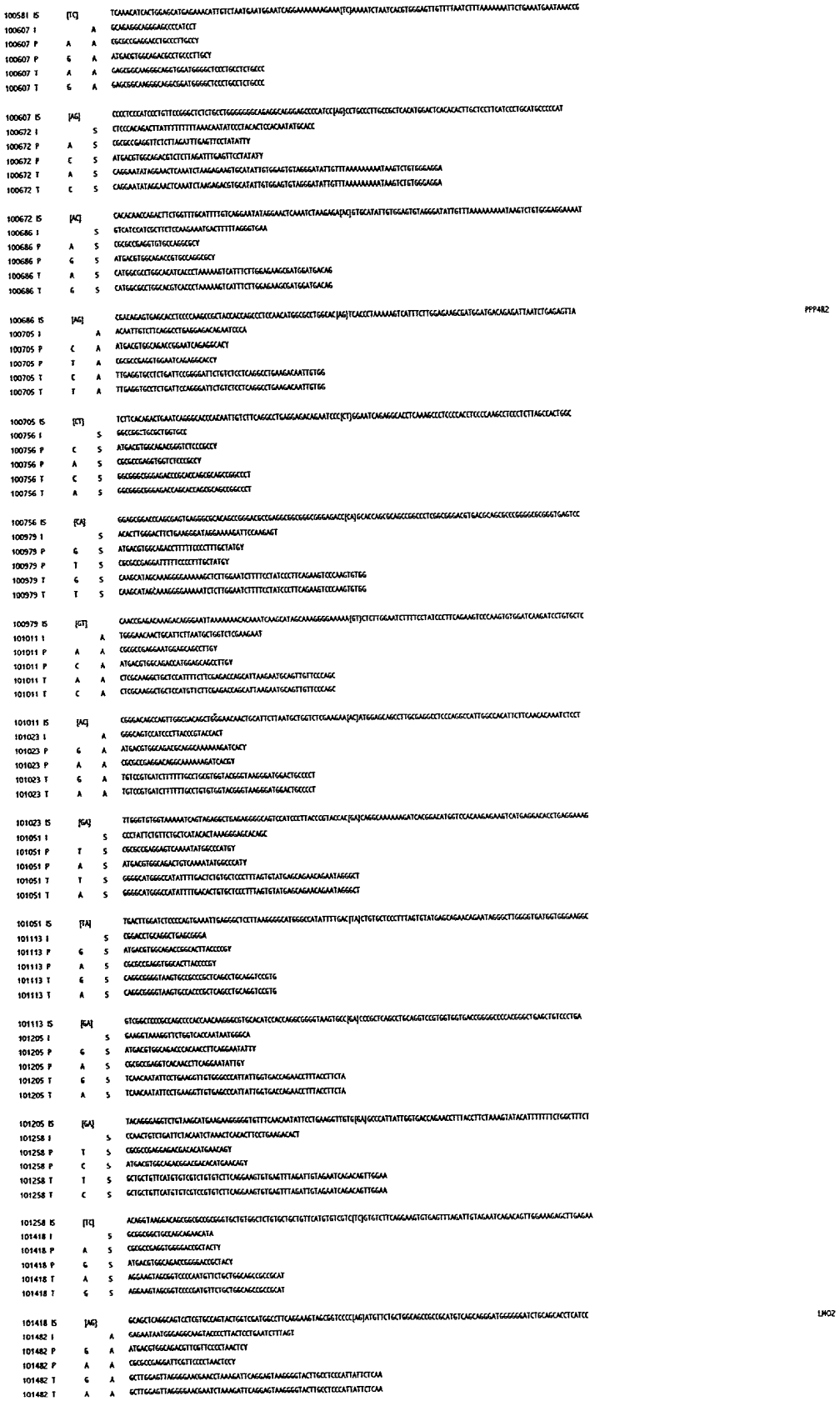

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FIGURE 129G

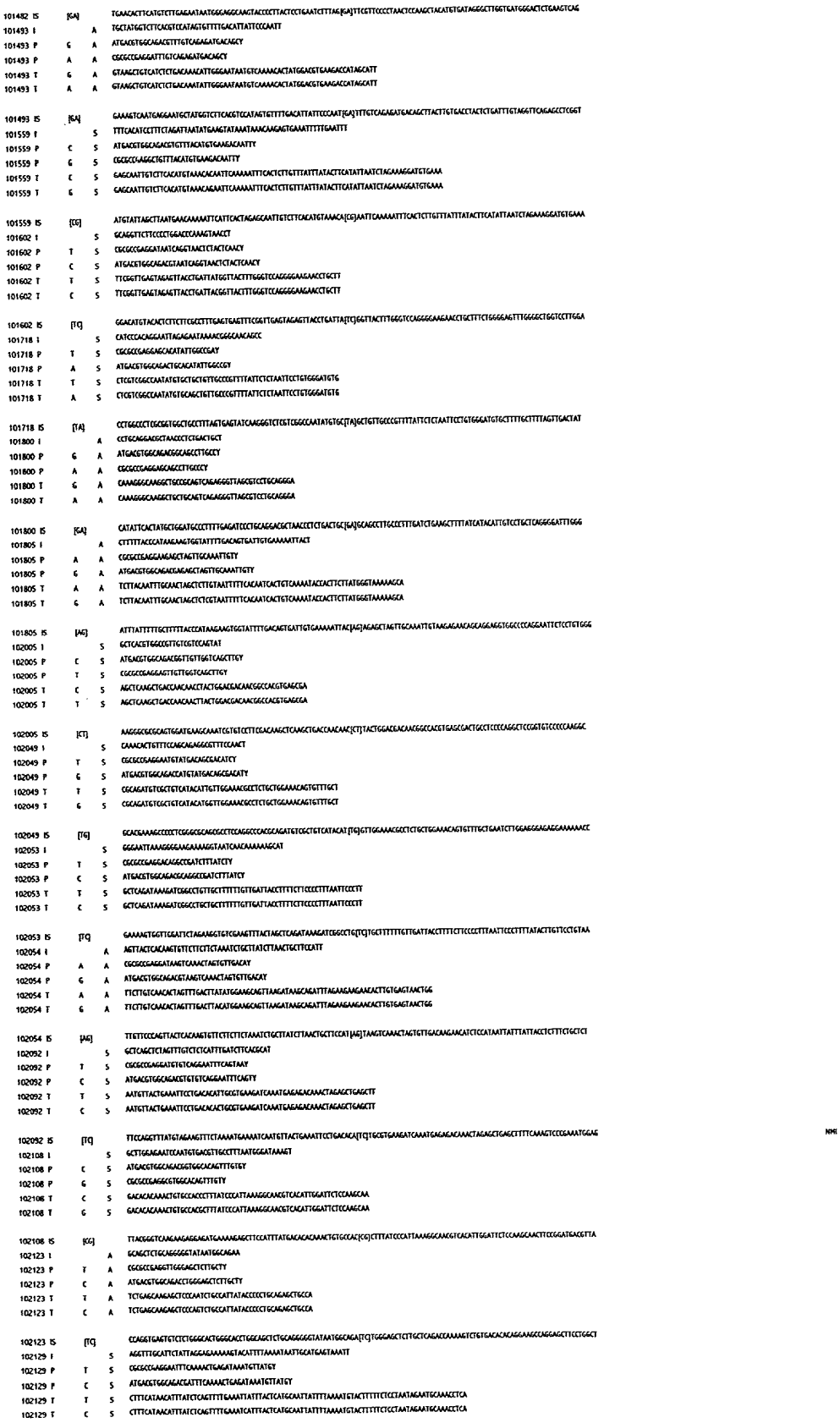


FIGURE 129G

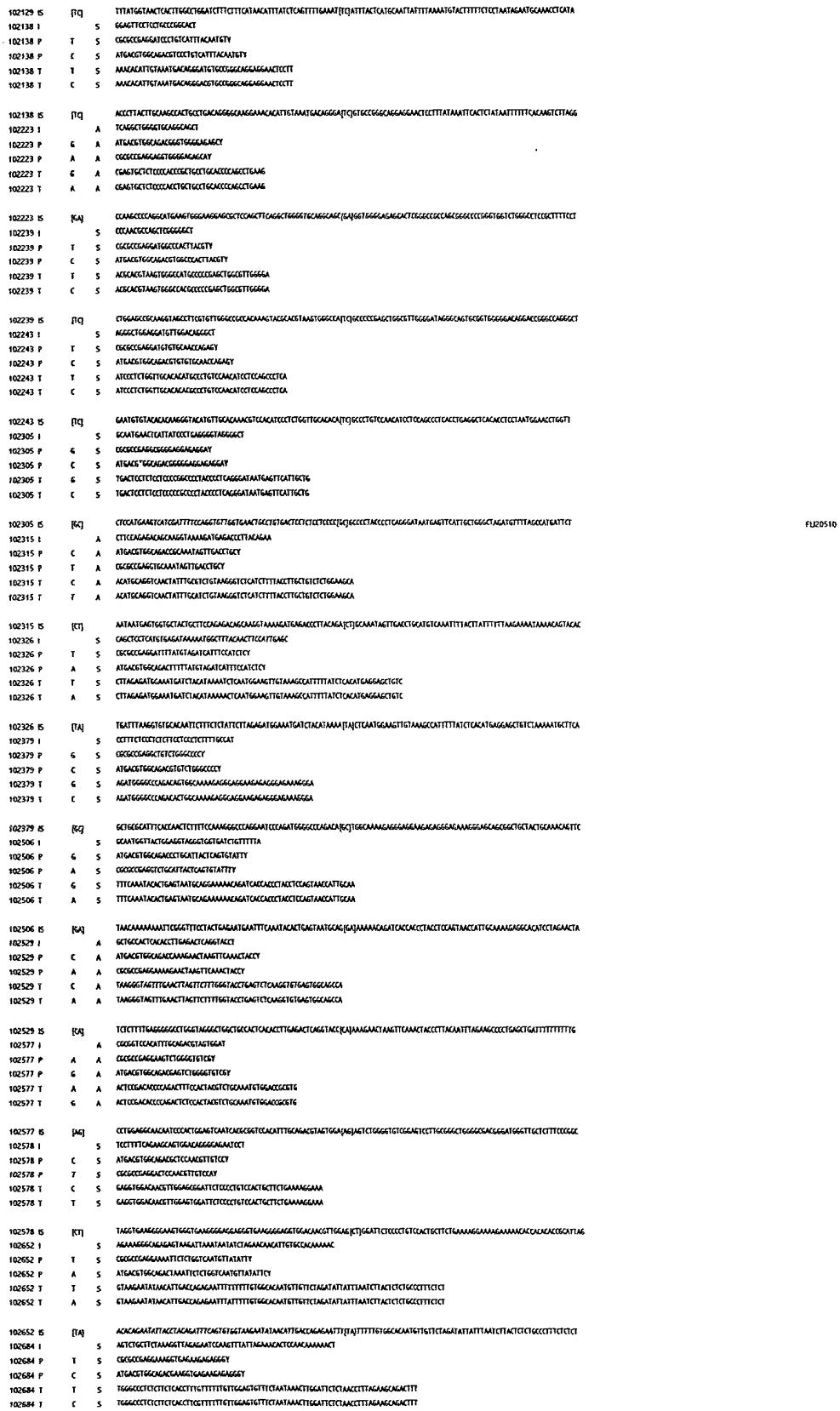


FIGURE 129G

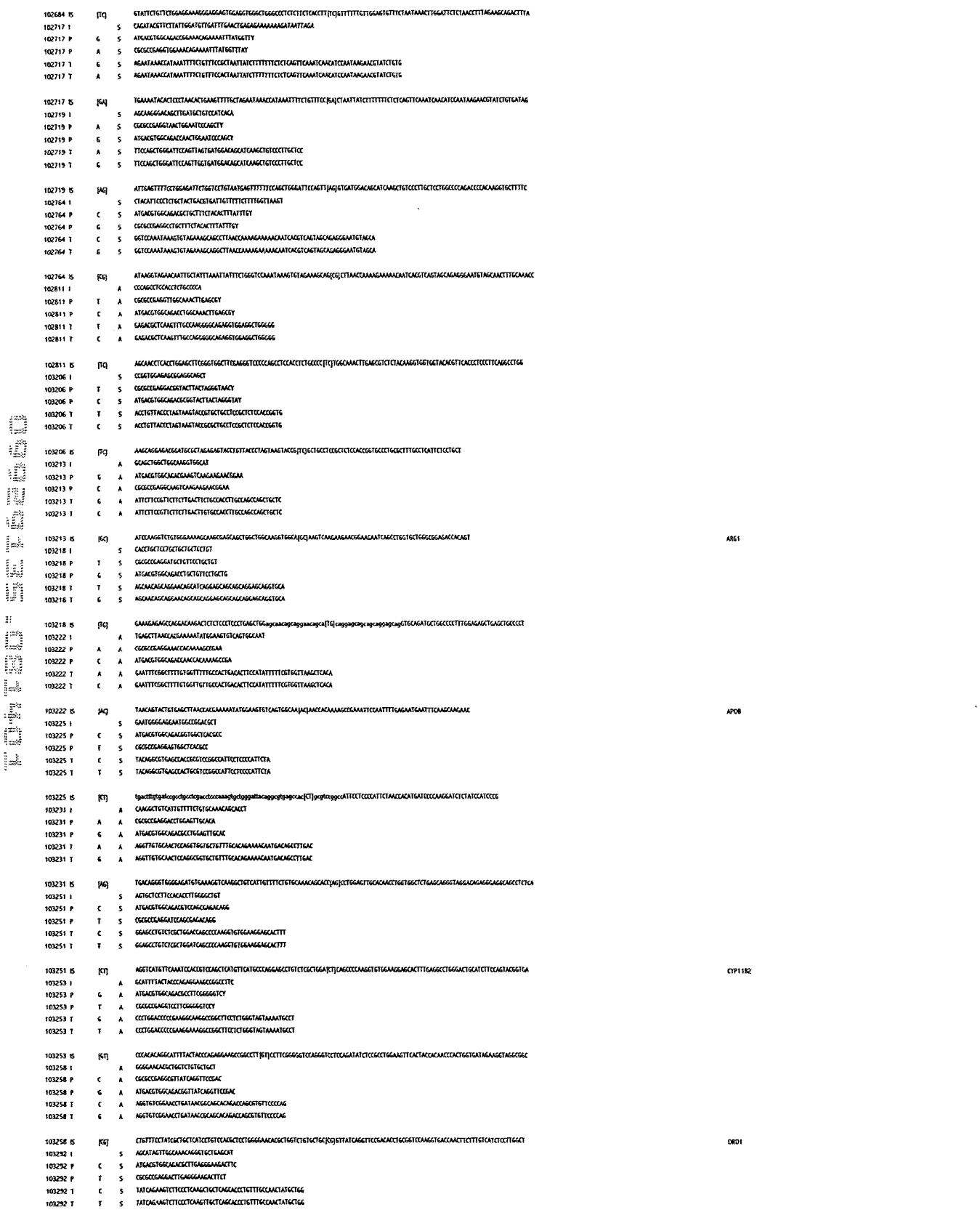
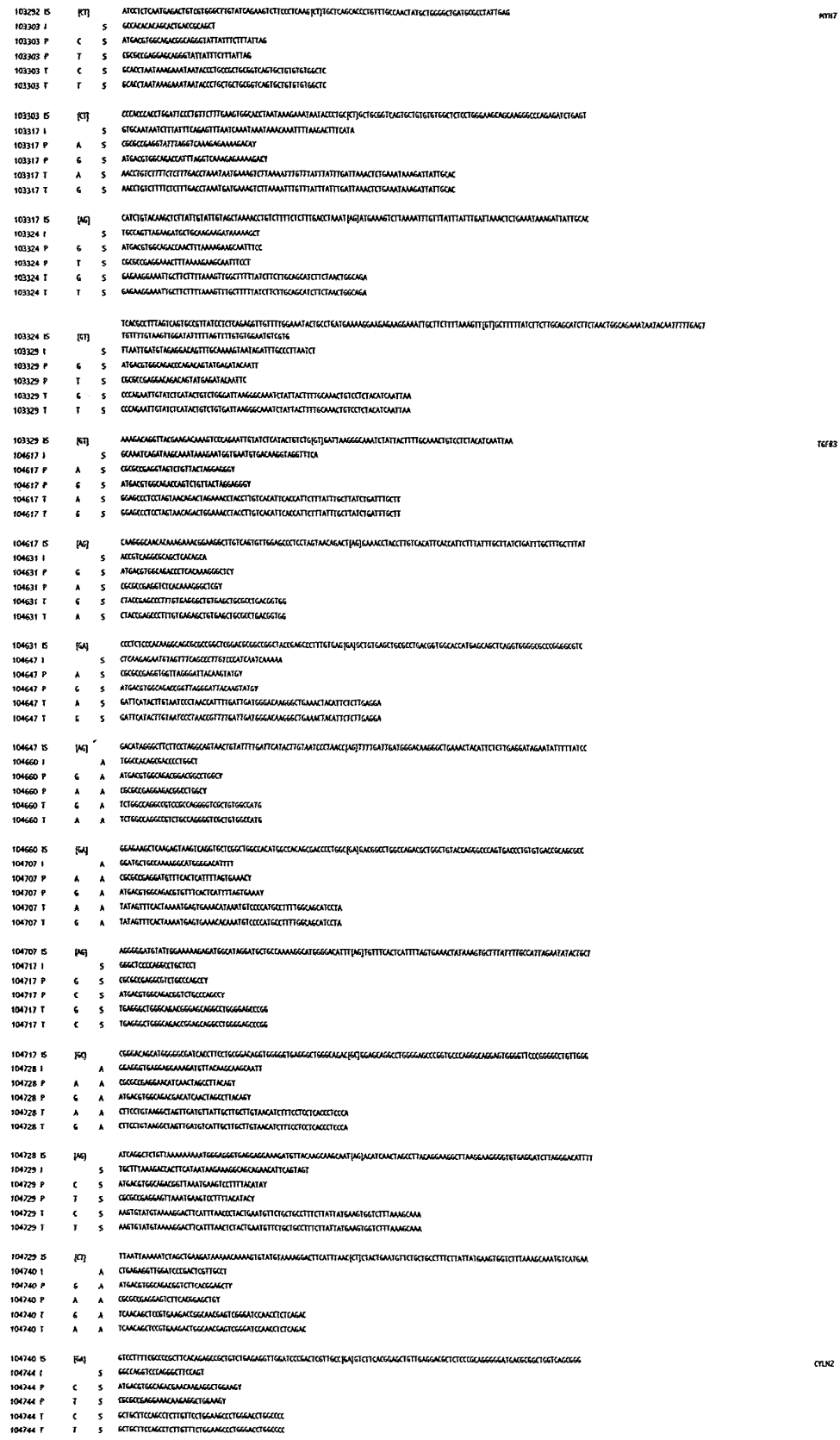

102684 IS [TC] GTATTCTGTCTGGAGGAAAGGAGGAGTGGAGCTGGGCTGGGCCTCTCTTCTCACCTT[TC]GTTTTTTGTGGAGTGTTCTAATAAACTTGGATTCTCTAACCTTTAGAAGCAGACTTTA
102717 I S CAGATACGTTCTTATTGGATGTTGATTTGAACTGAGAGAAAAAAGATAATTAGA
102717 P G S ATGACGTGGCAGACGGAAACAGAAAATTTATGGTTY
102717 P A S CGCGCCGAGGTGGAAACAGAAAATTTATGGTTAY
102717 T G S AGAATAAACCATAAATTTTCTGTTTCCGCTAATTATCTTTTTTCTCTCAGTTCAAATCAACATCCAATAAGAACGTATCTGTG
102717 T A S AGAATAAACCATAAATTTTCTGTTTCCACTAATTATCTTTTTTCTCTCAGTTCAAATCAACATCCAATAAGAACGTATCTGTG
102717 IS [GA] TGAAAATACACTCCCTAACACTGAAGTTTTGCTAGAATAAACCATAAATTTTCTGTTTCC[GA]CTAATTATCTTTTTTCTCTCAGTTCAAATCAACATCCAATAAGAACGTATCTGTGATAG
102719 I S AGCAAGGGACAGCTTGATGCTGTCCATCACA
102719 P A S CGCGCCGAGGTAACTGGAATCCCAGCTY
102719 P G S ATGACGTGGCAGACCAACTGGAATCCCAGCY
102719 T A S TTCCAGCTGGGATTCCAGTTAGTGATGGACAGCATCAAGCTGTCCCTTGCTCC
102719 T G S TTCCAGCTGGGATTCCAGTTGGTGATGGACAGCATCAAGCTGTCCCTTGCTCC
102719 IS [AG] ATTGAGTTTTCCTGGAGATTCTGGTCCTGTAATGAGTTTTTTCCAGCTGGGATTCCAGTT[AG]GTGATGGACAGCATCAAGCTGTCCCTTGCTCCTGGCCCCAGACCCACAAGGTGCTTTTC
102764 I S CTACATTCCCTCTGCTACTGACGTGATTGTTTTCTTTTGGTTAAGT
102764 P C S ATGAGGTGGCAGACGCTGCTTTCTACACTTTATTTGY
102764 P G S CGCGCCGAGGCCTGCTTTCTACACTTTATTTGY
102764 T C S GGTCCAAATAAAGTGTAGAAAGCAGCCTTAACCAAAAGAAAAACAATCACGTCAGTAGCAGAGGGAATGTAGCA
102764 T G S GGTCCAAATAAAGTGTAGAAAGCAGGCTTAACCAAAAGAAAAACAATCACGTCAGTAGCAGAGGGAATGTAGCA
102764 IS [CG] ATAAGGTAGAACAATTGCTATTTAAATTATTTCTGGGTCCAAATAAAGTGTAGAAAGCAG[CG]CTTAACCAAAAGAAAAACAATCACGTCAGTAGCAGAGGGAATGTAGCAACTTTGCAAACC
102811 I A CCCAGCCTCCCACCTCTGCCCCA
102811 P T A CGCGCCGAGGTTGGCAAACTTGAGCGY
102811 P C A ATGACGTGGCAGACCTGGCAAACTTGAGCGY
102811 T T A GAGACGCTCAAGTTTGCCAAGGGGCAGAGGTGGAGGCTGGGGG
102811 T C A GAGACGCTCAAGTTTGCCAGGGGGCAGAGGTGGAGGCTGGGGG
102811 IS [TC] AGCAACCTCACCTGGAGCTTCGGGTGGCTTCGAGGGTCCCCAGCCTCCACCTCTGCCCC[TC]TGGCAAACTTGAGCGTCTCTACAAGGTGGTGGTACACGTTCACCCTCCCTTCAGGCCTGG
103206 I S CCGGTGGCAGACGGAGGCAGCT
103206 P T S CGCGCCGAGGACGGTACTTACTAGGGTAACY
103206 P C S ATGACGTGGCAGACGCGGTACTTACTAGGGTAY
103206 T T S ACCTGTTACCCTAGTAAGTACCGTGCTGCCTCCGCTCTCCACCGGTG
103206 T C S ACCTGTTACCCTAGTAAGTACCGGCTGCCTCCGCTCTCCACCGGTG
103206 IS [TC] AAGCAGGAGAGCGGATGCGCTAGAGAGTACCTGTTACCCTAGTAAGTACCG[TC]GCTGCCTCCGCTCTCCACCGGTGCCCTGGCTTTGCCTCATTCTCCTGCT
103213 I A GCAGCTGGCTGGCAAGGTGGCAT
103213 P G A ATGACGTGGCAGACGAAGTCAACAAGAACGGAA
103213 P C A CGCGCCGAGGCAAGTCAAGAAGAACGGAA
103213 T G A ATTCTTCCGTCTCTTCTTGACTTCTGCCACCTTGCCAGCCAGCTGCTC
103213 T C A ATTCTTCCGTCTCTTCTTGACTTGTGCCACCTTGCCAGCCAGCTGCTC
103213 IS [GC] ATCCAAGGTCTGTGGGAAAAGCAAGCGAGCAGCTGGCTGGCAAGGTGGCA[GC]AAGTCAAGAAGAACGGAAGAATCAGCCTGGTGCTGGGCGGAGACCACAGT ARG1
103218 I S CACCTGCTCCTGCTGCTGCTCTGT
103218 P T S CGCGCCCAGGATGCTGTTCCTGCTGT
103218 P G S ATGACGTGGCAGACCTGCTGTTCCTGCTG
103218 T T S AGCAACAGCAGGAACAGCATCAGGAGCAGCAGCAGGAGCAGGTGCA
103218 T G S AGCAACAGCAGGAACAGCAGCAGGAGCAGCAGCAGGAGCAGGTGCA
103218 IS [TG] GAAAGAGAGCCAGGACAAGACTCTCTCCCTCCCTGAGCTGGaagcaacagcaggaacagca[TG]caggagcagcagcaggagcagGTGCAGATGCTGGCCCCTTTGGAGAGCTGAGCTGCCCT
103222 I A TGAGCTTAACCACGAAAAATATGGAAGTGTCAGTGGCAAT
103222 P A A CGGCCCAGGAAACCACAAAGCCGAA
103222 P C A ATGACGTGGCAGACCAACCACAAAGCCGA
103222 T A A GAATTTCGGCTTTTGTGGTTTTGCCACTGACACTTCCATATTTTTCGTTGGTTAAGCTCACA
103222 T C A GAATTTCGGCTTTTGTGGTTGTTGCCACTGACACTTCCATATTTTTCGTTGGTTAAGCTCACA
103222 IS [AC] TAACAGTACTGTGAGCTTAACCACGAAAAATATGGAAGTGTCAGTGGCAA[AC]AACCACAAAGCCGAAATTCCAATTTTGAGAATGAATTTCAAGCAAGAAC APOB
103225 I S GAATGGGGAAGGAATGGCCGGACGCT
103225 P C S ATGACGTGGCAGACGGTGGCTCACGCC
103225 P F S CGCGCCGAGGAGTGGCTCACGCC
103225 T C S TACAGGCGTGAGCCACGCGTCCGGCCATTCCTCCCCATTCTA
103225 T T S TACAGGCGTGAGCCACTGCGTCCGGCCATTCCTCCCCATTCTA
103225 IS [CT] tgacttgtgatccgcgctgccttcgacctcccaaagtgctgggattacaggcgtgagccac[CT]gcgtccggccATTCCTCCCCATTCTAACCACATGATCCCCAAGGATCTCTATCCATCCCG
103231 I A CAAGGCTGTCATTGTTTTCTGTGCAAACAGCACCT
103231 P A A CGCGCCGAGGACCTGGAGTTGCACA
103231 P G A ATGACGTGGCAGACGCCTGGAGTTGCAC
103231 T A A AGGTTGTGCAACTCCAGGTGGTGCTGTTTGCACAGAAAACAATGACAGCCTTGAC
103231 T G A AGGTTGTGCAACTCCAGGCGGTGCTGTTTGCACAGAAAACAATGACAGCCTTGAC
103231 IS [AG] TGACAGGGTGGGGAGATGTGAAAGGTCAAGGCTGTCATTGTTTTCTGTGCAAACAGCACT[AG]CCTGGAGTTGCACAACCTGGTGGCTCTGAGCAGGGTAGGACAGAGGCAGGCAGCCTCTCA
103251 I S AGTGCTCCTTCCACACCTTGGGGCTGT
103251 P C S ATGACGTGGCAGACGTCCAGCCAGACAGG
103251 P T S CGCGCCGAGGATCCAGCGAGACAGG
103251 T C S GGAGCCTGTCTGCTGGACCAGCCCCAAGGTGTGCAAGGAGCACTTT
103251 T T S GGAGCCTGTCTGCTGGATCAGCCCCAAGGTGTGCAAGGAGCACTTT
103251 IS [CT] AGGTCATGTTCAAATCCACCGTCCAGCTCATGTTCATGCCCAGGAGCCTGTCTCGCTGGA[CT]CAGCCCCAAGGTGTGCAAGGAGCACTTTGAGGCCTGGGACTGCATCTTCCAGTACGGTGA CYP11B2
103253 I A GCATTTTACTACCCACAGCAAGCCGGCCTTC
103253 P G A ATGACGTGGCAGACGCCTTCGGGGGTCY
103253 P T A CGCGCCGAGGTCCTTCGGGGGTCCY
103253 T G A CCCTGGACCCCCGAAGGCAAGGCCGGCTTCCTCTGGGTAGTAAAATGCCT
103253 T T A CCCTGGACCCCCGAAGGAAAGCCGGCTTCCTCTGGGTAGTAAAATGCCT
103253 IS [GT] CCCACACAGGCATTTTACTACCCACAGGAAGCCGGCCTT[GT]CCTTCGGGGGTCCAGGGTCCTCCAGATATCTCCGCCTGGAAGTTCACTACCACAACCCACTGGTGATAGAAGGTAGCCGGC
103258 I A GGGGAACACGCTGGTCTGTGCTGCT
103258 P C A CGCGCCGAGGGTTATCAGGTTCCGAC
103258 P G A ATGACGTGGCAGACGGTTATCAGGTTCCGAC
103258 T C A AGGTGTCGGAACCTGATAACGCAGCACAGACAGCGTGTTCCCCAG
103258 T G A AGGTGTCGGAACCTGATAACCGCAGCACAGACAGCGTGTTCCCCAG
103258 IS [CG] CTGTTTCCTATCGCTGCTCATCCTGTCCAGCTCCTGGGGAACACGCTGGTCTGTGCTGC[CG]GTTATCAGGTTCCGACACCTGCGGTCCAAGGTGACCAACTTCTTTGTCATCTCCTTGGCT DRD1
103292 I S AGCATAGTTGGCAAACAGGGTGCTGAGCAT
103292 P C S ATGACGTGGCAGACGCTTGAGGGAAGACTTC
103292 P T S CGCGCCGAGGACTTGAGGGAAGACTTCT
103292 T C S TATCAGAAGTCTTCCCTCAAGCTGCTCAGCACCTGTTTGCCAACTATGCTGG
103292 T T S TATCAGAAGTCTTCCCTCAAGTTGCTCAGCACCTGTTTGCCAACTATGCTGG

FIGURE 129G


103292 IS [CT] ATCCTCTCAATGAGACTGTCGTGGGCTTGTATCAGAAGTCTTCCCTCAAG[CT]TGCTCAGCACCCTGTTTGCCAACTATGCTGGGGCTGATGCGCCTATTGAG MYH7
103303 I S GCCACACACAGCACTCACCGCAGCT
103303 P C S ATGACGTGGCAGACGGCAGGGTATTATTTCTTTATTAG
103303 P T S CGCGCCGAGGAGCAGGGTATTATTTCTTTATTAG
103303 T C S GCACCTAATAAAGAAATAATACCCTGCCGCTGCGGTCAGTGCTGTGTGTGGCTC
103303 T T S GCACCTAATAAAGAAATAATACCCTGCTGCTGCGGTCAGTGCTGTGTGTGGCTC
103303 IS [CT] CCCACCCACCTGGATTCCCTGTTCTTTGAAGTGGCACCTAATAAAGAAATAATACCCTGC[CT]GCTGCGGTCAGTGCTGTGTGGCTCTCCTGGGAAGCAGCAAGGCCCAGAGATCTGAGT
103317 I S GTGCAATAATCTTTATTTCAGAGTTTAATCAAATAAATAAACAAATTTTAAGACTTCATA
103317 P A S CGCGCCGAGGTATTTAGGTCAAAGAGAAAAGACAY
103317 P G S ATGACGTGGCAGACCATTTAGGTCAAAGAGAAAAGACT
103317 T A S AACCTGTCTTTCTCTTTGACCTAAATAATGAAAGTCTTAAAATTGTTTATTTATTTGATTAAACTCTGAAATAAAGATTATTGCAC
103317 T G S AACCTGTCTTTCTCTTTGACCTAAATGATGAAAGTCTTAAAATTGTTTATTTATTTGATTAAACTCTGAAATAAAGATTATTGCAC
103317 IS [AG] CATCTGTACAAGCTCTTATTGTATTGTAGCTAAAACCTGTCTTTTCTCTTTGACCTAAAT[AG]ATGAAAGTCTTAAAATTTGTTTATTTATTTGATTAAACTCTGAAATAAAGATTATTGCAC
103324 I S TGCCAGTTAGAAGATGCTGCAAGAAGATAAAAAGCT
103324 P G S ATGACGTGGCAGACCAACTTTAAAAGAAGCAATTTCC
103324 P T S CGCGCCGAGGAAACTTTAAAAGAAGCAATTTCCT
103324 T G S GAGAAGGAAATTGCTTCTTTTAAAGTTGGCTTTTTATCTTCTTGCAGCATCTTCTAACTGGCAGA
103324 T T S GAGAAGGAAATTGCTTCTTTTAAAGTTTGCTTTTTATCTTCTTGCAGCATCTTCTAACTGGCAGA
TCACGCCTTTAGTCAGTGCCGTTATCCCTCTAGAGGTTGTTTTGGAAATACTGCCTGATGAAAAGGAAGAGAAGGAAATTGCTTCTTTTAAAGTT[GT]GCTTTTTATCTTCTTGCAGCATCTTCTAACTGGCAGAAATAATACAATTTTTGAGT
103324 IS [GT] TGTTTTGTAAGTTGGATATTTTTAGTTTTGTGTGAAATGTCGTG
103329 I S TTAATTGATGTAGAGGACAGTTTGCAAAAGTAATAGATTTGCCCCTAATCT
103329 P G S ATGACGTGGCAGACCCAGACAGTATGAGATACAATT
103329 P T S CGCGCCGAGGAAGACAGTATGAGATACAATT
103329 T G S CCCAGAATTGTATCTCATACTGTCTGGGATTAAGGGCAAATCTATTACTTTTGCAAACTGTCCTCTACATCAATTAA
103329 T T S CCCAGAATTGTATCTCATACTGTCTGTGATTAAGGGCAAATCTATTACTTTTGCAAACTGTCCTCTACATCAATTAA
103329 IS [GT] AAAGACAGGTTACGAAGACAAAGTCCCAGAATTGTATCTCATACTGTCTG[GT]GATTAAGGGCAAATCTATTACTTTTGCAAACTGTCCTCTACATCAATTAA TGFB3
104617 I S GCAAATCAGATAAGCAAATAAAGAATGGTGAATGTGACAAGGTAGGTTTCA
104617 P A S CGCGCCGAGGTAGTCTGTTACTAGGAGGGY
104617 P G S ATGACGTGGCAGACCAGTCTGTTACTAGGAGGGY
104617 T A S GGAGCCCTCCTAGTAACAGACTAGAAACCTACCTTGTCACATTCACCATTCTTTATTTGCTTATCTGATTTGCTT
104617 T G S GGAGCCCTCCTAGTAACAGACTGGAAACCTACCTTGTCACATTCACCATTCTTTATTTGCTTATCTGATTTGCTT
104617 IS [AG] CAAGGGCAACACAAAGAAACGGAAGGCTGTCAAGTGTTGGAGCCCTCCTAGTAACAGACT[AG]GAAACCTACCTTGTCACATTCACCATTCTTTATTTGCTTATCTGATTTGCTTTGCTTTAT
104631 I S ACCGTCAGGGCAGCTCACAGCA
104631 P G S ATGACGTGGCAGACCCTCACAAAGGGCTCY
104631 P A S CGCGCCGAGGTCTCACAAAGGGCTCGY
104631 T G S CTACCGAGCCCTTGTGAAGGCTGTGAAGCTGCGCCTGACGGTGG
104631 T A S CTACCGAGCCCTTGTGAAGGCTGTGAAGCTGCGCCTGACGGTGG
104631 IS [GA] CCCTCTCCCACAAGGCAGCGCGCCGGCTCGGACGCGGCCGGCTACCGAGCCCTTGTGAG[GA]GCTGTGAAGCTGCGCCTGACGGTGGCACCATGAGCAGCTCAGGTGGGGCGCCCGGGGGTC
104647 I S CTCAAGAGAATGTAGTTTCAGCCCTTGTCCCATCAATCAAAAA
104647 P A S CGCGCCGAGGTGGTTAGGGATTACAAGTATGY
104647 P G S ATGACGTGGCAGACGGTTAGGGATTACAAGTATGY
104647 T A S GATTCATACTTGTAATCCCTAACCATTTTGATTGATGGGACAAGGGCTGAAACTACATTCTCTTGAGGA
104647 T G S GATTCATACTTGTAATCCCTAACCGTTTTGATTGATGGGACAAGGGCTGAAACTACATTCTCTTGAGGA
104647 IS [AG] GACATAGGGCTTCTTCCTAGGCAGTAACTGTATTTTGATTCATACTTGTAATCCCTAACC[AG]TTTGATTGATGGGACAAGGGCTGAAACTACATTCTCTTGAGGATAGAATATTTTTATCC
104660 I A TGGCCACAGGCACCCCTGGCT
104660 P G A ATGACGTGGCAGACGGACGGCCTGGCY
104660 P A A CGCGCCGAGGAGACGGCCTGGCY
104660 T G A TCTGGCCAGGCCGTCCGCCAGGGGTCGCTGTGGCCATG
104660 T A A TCTGGCCAGGCCGTCTGCCAGGGGTCGCTGTGGCCATG
104660 IS [GA] GGAGAAGCTCAAGAGTAAGTCAGGTGCTCGGCTGGCCACATGGCCACAGCGACCCTGGC[GA]CACGGCCTGGCCAGACGCTGGCTGTACCAGGCGCCCAGTGACCCTGTGTGACCGCAGCGCC
104707 I A GGATGCTGCCAAAGGCATGGGGACATTT
104707 P A A CGCGCCGAGGATGTTTCACTCATTTTAGTGAAACY
104707 P G A ATGACGTGGCAGACGTGTTTCACTCATTTTAGTGAAAY
104707 T A A TATAGTTTCACTAAAATGAGTGAAACATAAATGTCCCCATGCCTTTTGGCAGCATCCTA
104707 T G A TATAGTTTCACTAAAATGAGTGAAACACAAATGTCCCCATGCCTTTTGGCAGCATCCTA
104707 IS [AG] AGGGGGATGTATTGGAAAAAGAGATGGCATAGGATGCTGCCAAAAGGCATGGGGACATTT[AG]TGTTTCACTCATTTTAGTGAAACTATAAAGTGCTTTATTTTGCCATTAGAATATACTGCT
104717 I S GGGCTCCCCAGGCCTGCTCCT
104717 P G S CGCGCCGAGGCGTCTGCCCAGCCY
104717 P C S ATGACGTGGCAGACGGTCTGCCCAGCCY
104717 T G S TGAGGGCTGGGCAGACGGGAGCAGGCCTGGGGAGCCCCG
104717 T C S TGAGGGCTGGGCAGACGGAGCAGGCCTGGGGAGCCCCG
104717 IS [GC] CGGGACAGCATGGCGGCGATCACCTTCCTGCGGACAGGTGGGGGTGAGGGCTGGGCAGAC[GC]GGAGCAGGCCTGGGGAGCCCGGTGCCCAGGGCAGGAGTGGGGTTCCCGGGGCCTGTTGGG
104728 I A GGAGGGTGAGGAGGAAAGATGTTACAAGCAAGCAATT
104728 P A A CGCGCCGAGGAACATCAACTAGCCTTACAGY
104728 P G A ATGACGTGGCAGACGAACATCAACTAGCCTTACAGY
104728 T A A CTTCCTGTAAGGCTAGTTGATGTTATTGCTTGCTTGTAACATCTTTCCTCTCACCCTCCCA
104728 T G A CTTCCTGTAAGGCTAGTTGATGTCATTGCTTGCTTGTAACATCTTTCCTCCTCACCCTCCCA
104728 IS [AG] ATCAGGCTCTGTTAAAAAAAAATGGGAGGGTGAGGAGGAAAGATGTTACAAGCAAGCAATT[AG]ACATCAACTAGCCTTACAGGAAGGCTTAAGGAAGGGGTGTGAGGATCTTAGGGACATTTT
104729 I S TGCTTTAAAGACTACTTCATAATAAGAAAGGCAGCAGAACATTCAGTAGT
104729 P C S ATGACGTGGCAGACGGTTAAATGAAGTCCTTTTACATAY
104729 P T S CGCGCCGAGGAGTTAAATGAAGTCCTTTTACATACY
104729 T C S AAGTGTATGTAAAAGGACTTCATTTAACCCTACTGAATGTTCTGCTGCCTTTCTTATTATGAAGTGGTCTTTAAAGCAAA
104729 T T S AAGTGTATGTAAAAGGACTTCATTTAACTCTACTGAATGTTCTGCTGCCTTTCTTATTATGAAGTGGTCTTTAAAGCAAA
104729 IS [CT] TTAATTAAAAATCTAGCTGAAGATAAAAACAAAAGTGTATGTAAAAGGACTTCATTTAAC[CT]CTACTGAATGTTCTGCTGCCTTTCTTATTATGAAGTGGTCTTTAAAGCAAATGTCATGAA
104740 I A CTGAGAGGTTGGATCCCGACTCGTTGCCT
104740 P G A ATGACGTGGCAGACGGTCTTCAGGAGCTY
104740 P A A CGCGCCGAGGAGTCTTCAGGAGCTGT
104740 T G A TCAACAGCTCCGTGAAGACTGGCAACGAGTCGGGATCCAACCTCTCAGAC
104740 T A A TCAACAGCTCCGTGAAGACTGGCAACGAGTCGGGATCCAACCTCTCAGAC
104740 IS [GA] GTCCTTTTCGCCCGCTTCACAGAGCCGCTGTCTGAGAGGTTGGATCCCGACTCGTTGCC[GA]GTCTCACGGAGCTGTTGAGGACGCTCTCCCGCAGGGGGATGAGCGGCTGGTCACCGGG CYLN2
104744 I S GGCCAGGTCCCAGGGCTTCCAGT
104744 P C S ATGACGTGGCAGACGAACAGAGGCTGGAAGY
104744 P T S CGCGCCGAGGAAACAAGAGGCTGGAAGY
104744 T C S GCTGCTTCCAGCCTCTTGTTCCTGGAAGCCTGGAACTGGCCC
104744 T T S GCTGCTTCCAGCCTCTTGTTCCTGGAAGCCTGGGACCTGGCCC

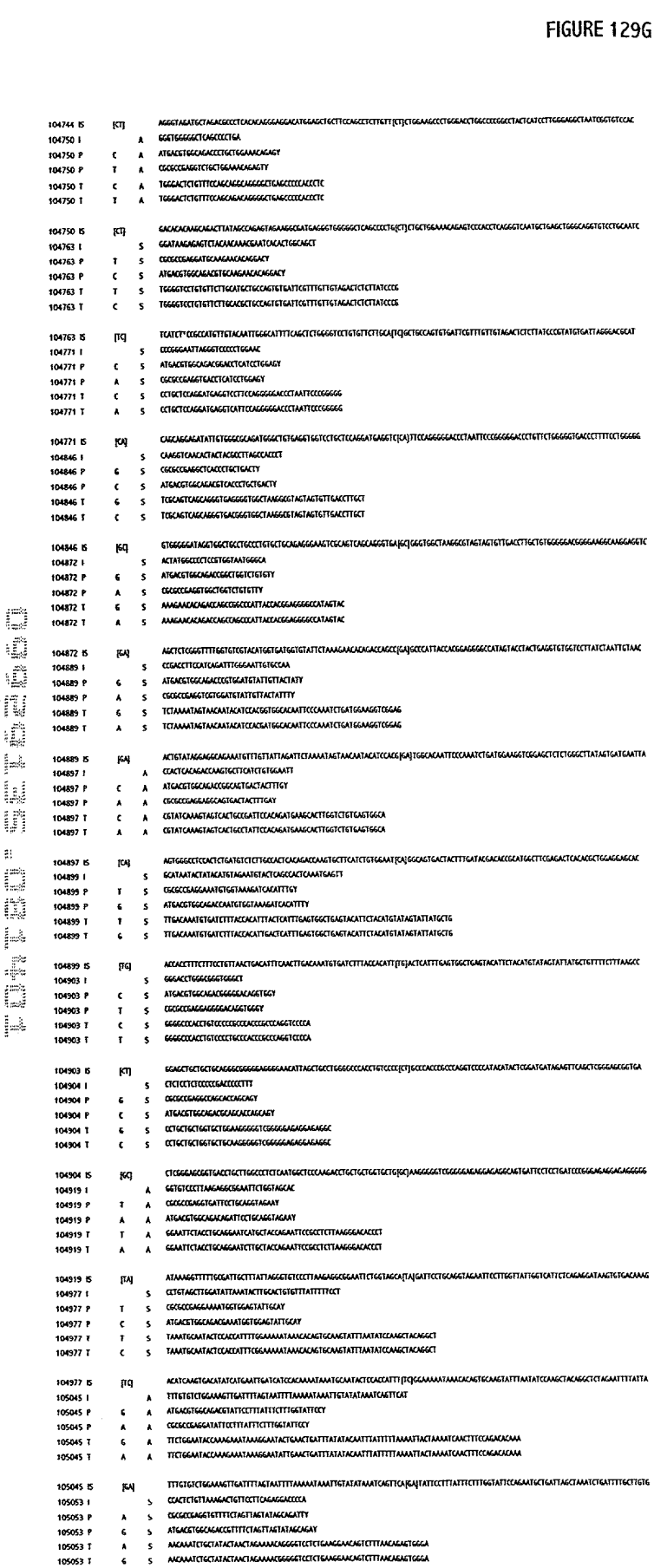


FIGURE 129G

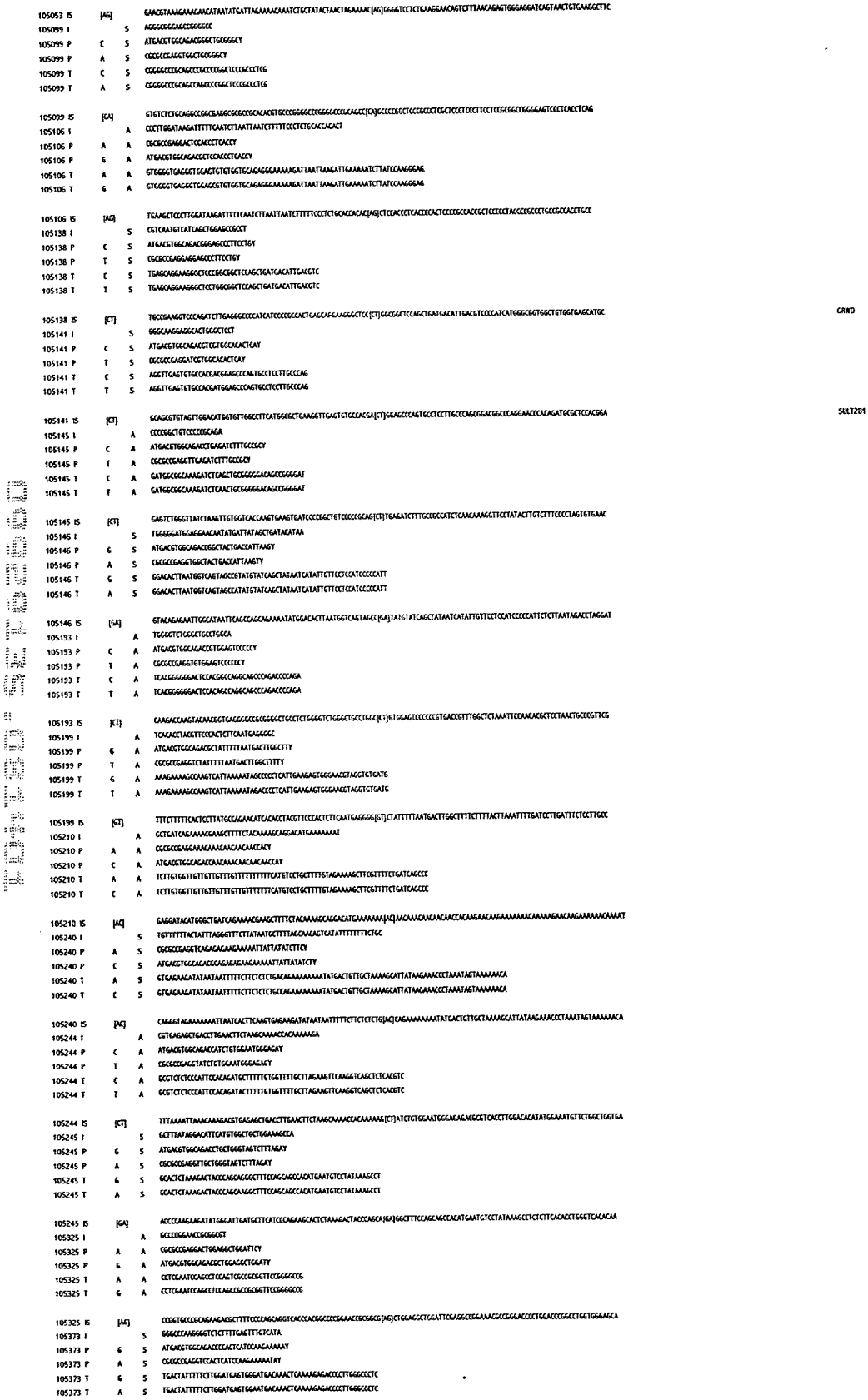
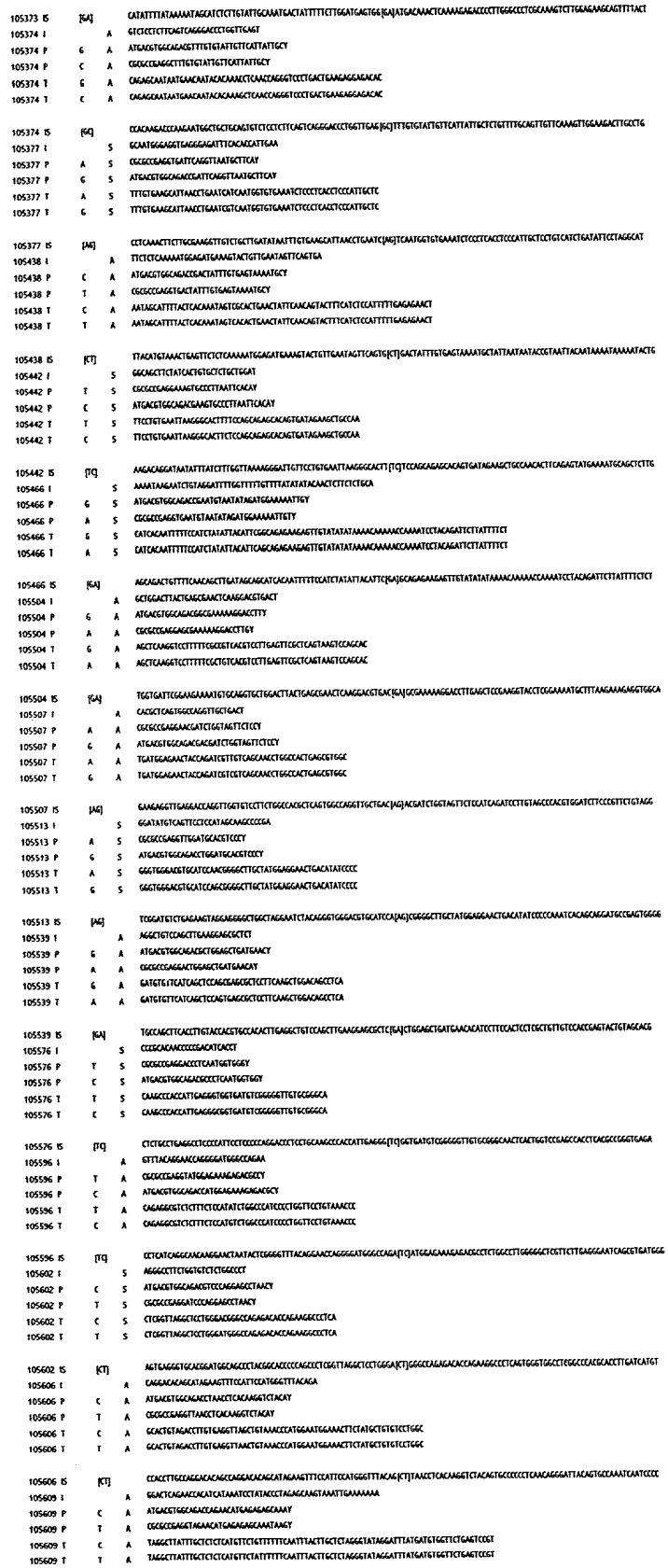


FIGURE 129G



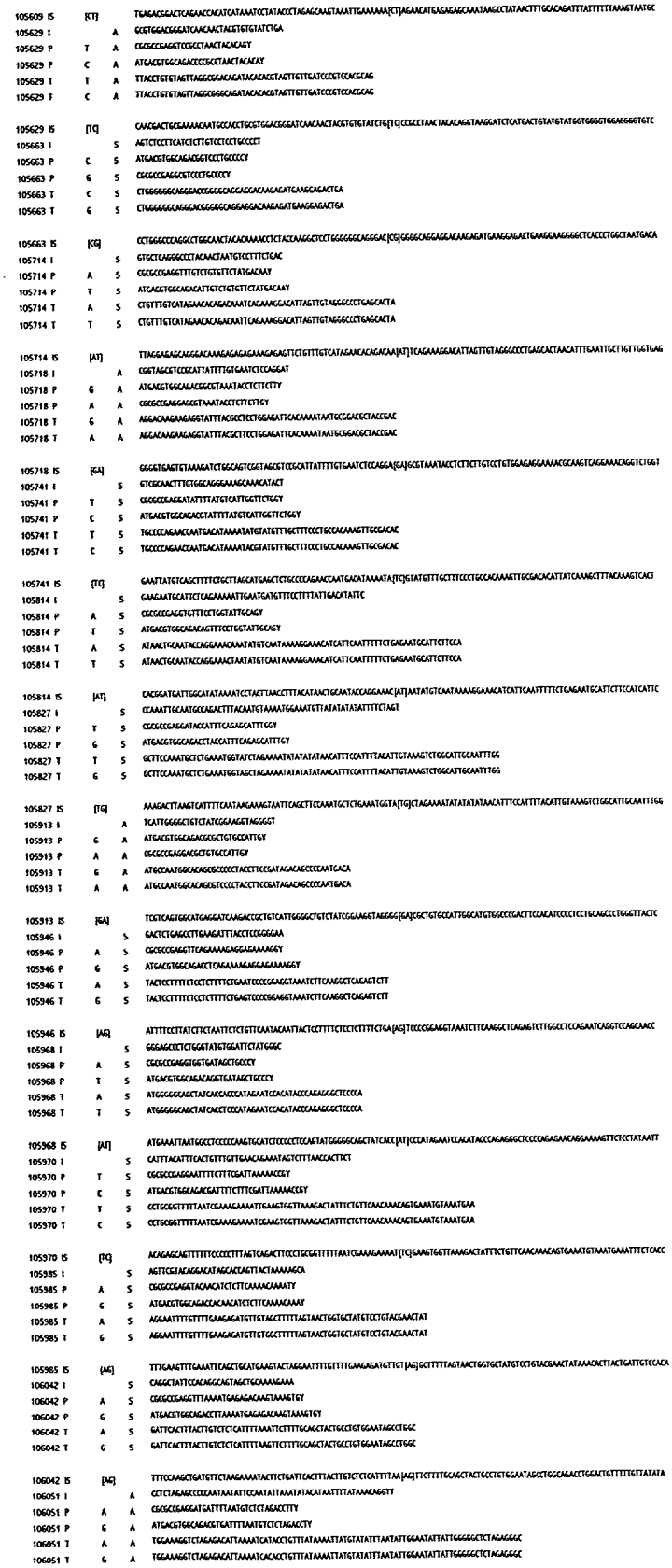


FIGURE 129G

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106060 I       A      GGATAGCCATGACCTACGAGCGCATCCCTT
106060 P     G A      ATGACGTGGCAGACGTACATCAGCCTGGAGAY
106060 P     C A      CGCGCCGAGGCTACATCAGCCTGGAGAT
106060 T     G A      AGCATCTCCAGGCTGATGTACAGGATGCGCTCGTAGGTCATGGCTATCCSC
106060 T     C A      AGCATCTCCAGGCTGATGTAGAGGATGCGCTCGTAGGTCATGGCTATCCGC

106060 IS    [GC]      CTTCGTGATCGACAACGGCGCGGATGACTGGCGGATAGCCATGACCTACGAGGCGCATCCT[GC]TACATCAGCCTGGAGATGCTGGTGTGCGCCATCCACCCATTCCTGGCGAGTACAAGTTC
106095 I       S      CACTGCATCAGGAATTGAGAAACCCATTTCTTACTTAA
106095 P     A S      CGCGCCGAGGTGCACTAACTATCCATAACAATY
106095 P     G S      ATGACGTGGCAGACCGCACTAACTATCCATAACAAY
106095 T     A S      AGGAATTGTTATGGATAGTTAGTGCATAAGTAAGAAATGGGTTTCTCAATTCCTGATGCAGTGCT
106095 T     G S      AGGAATTGTTATGGATAGTTAGTGCGTAAGTAAGAAATGGGTTTCTCAATTCCTGATGCAGTGCT

106095 IS    [AG]      TCACCAGTTTTATGGGTGAATAAAAAGGTGAAGCTAGGAATTGTTATGGATAGTTAGTGC[AG]TAAGTAAGAAATGGGTTTCTCAATTCCTGATGCAGTGCTCTTTATATTTTGTCACAGAGA
106097 I       S      GCTGGTATTGAATCACCCACCGCTTTCCTGTCTATTCT
106097 P     G S      ATGACGTGGCAGACCGTGAATAGTATATAAAGCATGAACY
106097 P     T S      CGCGCCGAGGAGTGAATAGTATATAAAGCATGAACY
106097 T     G S      CTATGTTCATGCTTTATATACTATTCACGGAATAGACAGGAAAGCGGTGGGTGATTCAATACCAGCAT
106097 T     T S      CTATGTTCATGCTTTATATACTATTCACTGAATAGACAGGAAAGCGGTGGGTGATTCAATACCAGCAT

106097 IS    [GT]      CATTTTGTAATTGAGAATGCTGAGGCTCAGGGCTATGTTCATGCTTTATATACTATTCAC[GT]GAATAGACAGGAAAGCGGTGGGTGATTCAATACCAGCATCCCTCTGTCATCATCGGTGGA
106114 I       A      GGCTGCAGGGGCTGTCTCTGGGT
106114 P     G A      ATGACGTGGCAGACGAGTCCCAGAGTTGCCY
106114 P     C A      CGCGCCGAGGCAGTCCCAGAGTTGCCY
106114 T     G A      GCCCGGCAACTCTGGGACTCCCCAGAGACAGCCCCTGCAGCCAG
106114 T     C A      GCCCGGCAACTCTGGGACTGCCCAGAGACAGCCCCTGCAGCCAG

106114 IS    [GC]      CGCAGCAGGCACACAGGGGGCAGGGCTCTGGGGTGTTCTGGCTGCAGGGGCTGTCTCTGGG[GC]AGTCCCAGAGTTGCCGGGCATCTAAAGAAAGGGAAGGAGCTGTCAGTGCCATGCCCCCTG
106160 I       A      CCTCCCTAACACCCCCCAACCCAAAAT
106160 P     A A      CGCGCCGAGGAAGAAGTTTACGGACCTAAACY
106160 P     C A      ATGACGTGGCAGACCAGAAGTTTACGGACCTAAAY
106160 T     A A      GATAGTTTAGGTCCGTAAACTTCTTTTTTGGGTGGGGGGTGGTAGGGAGGAG
106160 T     C A      GATAGTTTAGGTCCGTAAACTTCTGTTTTGGGTGGGGGGTGGTAGGGAGGAG

106160 IS    [AC]      AAACAGGAATATGTTGTCTTAACAGGGCCTTTTCTCCTCCCTACCACCCCCCACCCAAAA[AC]AGAAGTTTACGGACCTAAACTATCTTAGTGTATTTATCTTTTGTTTTGAATGGGAGTTTT
106170 I       A      GGCATCCTTCCTTTCCTCTGGGGCCAC
106170 P     T A      CGCGCCGAGGTGCATCAGATTTCCCTTGY
106170 P     G A      ATGACGTGGCAGACGGCATCAGATTTCCCTTGY
106170 T     T A      TCAACAAGGGAAATCTGATGCATGGCCCAGAGGAAAGGAAGGATGCCCA
106170 T     G A      TCAACAAGGGAAATCTGATGCCTGGCCCCAGAGGAAAGGAAGGATGCCCA

106170 IS    [TG]      GCCAGTACAAAGTAATAAAGCTTGGGGAGATTTGGGCATCCTTCCTTTCCTCTGGGGCCA[TG]GCATCAGATTTCCCTTGTTGAGAACCAGACAGGCATAGACCAAATGTGAATCTGGACATA
106171 I       S      GGTCACCTCCACCGGAAGGAAGCAAT
106171 P     T S      CGCGCCGAGGAGACAGCTACAGCTGTAAT
106171 P     G S      ATGACGTGGCAGACCGACAGCTACAGCTGTY
106171 T     T S      TATTTTACAGCTGTAGCTGTCTTTGCTTCCCTTCCGGTGGAGGTGACCAG
106171 T     G S      TATTTTACAGCTGTAGCTGTCGTTGCTTCCCTTCCGGTGGAGGTGACCAG

106171 IS    [TG]      ATTTTATTCCTTCTATTAAAATAAGCAAACCTGTCTCCCTATTTTACAGCTGTAGCTGTC[TG]TTGCTTCCCTTCCGGTGGAGGTGACCAGTTTGTAATGAACTTCTGGATCTCCAGTCAGAT
106192 I       S      CAGTGACCGCCCTCCCACGGCA
106192 P     G S      ATGACGTGGCAGACCCCCAGGACCACY
106192 P     A S      CGCGCCGAGGTCCCCAGGACCACTY
106192 T     G S      TCCGAGTGGTCCTGGGGGGCCGTGGCAGGGCGGTCACTGCG
106192 T     A S      TCCGAGTGGTCCTGGGGAGCCGTGGCAGGGCGGTCACTGCG

106192 IS    [GA]      GCCGATCTCATGGGCCATGGTGGCTGCGGCGCCGATGGGGAGCTCCGAGTGGTCCTGGGG[GA]GCCGTGGGAGGGCGGTCACTGCGGCCGTAGAGCCTCCTGTCTCTCCCTGGCCCCGCCCG
106219 I       A      CCCCGGCTCGCCGCGCA
106219 P     C A      ATGACGTGGCAGACCATGGAGCGGATCCCY
106219 P     T A      CGCGCCGAGGTATGGAGCGGATCCCY
106219 T     C A      GCTGGGGATCCGCTCCATGGCGCGGCGAGCCGGGGCC
106219 T     T A      GCTGGGGATCCGCTCCATAGCGCGGCGAGCCGGGGCC

106219 IS    [CT]      CCTCATCCAGAGCTCCGCTAGTGCAGACAGGAGCGCGCAGTGGCCCCGGCTCGCCGCGC[CT]ATGGAGCGGATCCCCAGCGCGCAACCACCCCCCGCCTGCCTGCCCAAAGCACCGGGACTG
106239 I       S      AATCCCTGCAGCACAGGGCCCCA
106239 P     G S      ATGACGTGGCAGACCGAACCCATTTGGAAATTAGY
106239 P     A S      CGCGCCGAGGTGAACCCATTTGGAAATTAGGY
106239 T     G S      TCCTCCTAATTTCCAAATGGGTTCGGGGCCCCTGTGCTGCAGGGATTGG
106239 T     A S      TCCTCCTAATTTCCAAATGGGTTCAGGGCCCCTGTGCTGCAGGGATTGG

106239 IS    [GA]      TTTCTTGAATTCTGTGCATTTCTTTGTAATTTGGAATCCTCCTAATTTCCAAATGGGTTC[GA]GGGCCCCTGTGCTGCAGGGATTGGGGTGATGAGAGGGAGTGGGCCTGCCTGGAATTTGCT
106245 I       A      CCCGCCCAGACAAGGTCTGAGAAAAAAGGAGAT
106245 P     A A      CGCGCCGAGGAACACAGAATGCTCTTCAAY
106245 P     C A      ATGACGTGGCAGACACACAGAATGCTCTTCAAY
106245 T     A A      GCCTTTGAAGAGCATTCTGTGTTTCTCCTTTTTTCTCAGACCTTGTCTGGGCGGGAC
106245 T     C A      GCCTTTGAAGAGCATTCTGTGTGTCTCCTTTTTTCTCAGACCTTGTCTGGGCGGGAC

106245 IS    [AC]      CTGACATTGGCGAGGTGGTGCTCGATGTCCGCCCAGACAGGTCTGAGAAAAAAGGAGA[AC]ACACAGAATGCTCTTCAAAGGCCAAGCAATATTTTGTCTTTTTAATGATGGGGATGACGA
106262 I       S      AAAATGAAAATGTCCGTGATTTTAGGAATCATTCATATGACTTTTGGT
106262 P     T S      CGCGCCGAGGAGTCATTCTGGGAATATTTAACCY
106262 P     C S      ATGACGTGGCAGACGGTCATTCTGGGAATATTTAACY
106262 T     T S      AAGTGGTTAAATATTCCCAGAATGACTCCAAAAGTCATATGAATGATTCCTAAAATCACGGACATTTTCATTTTGA
106262 T     C S      AAGTGGTTAAATATTCCCAGAATGACCCCAAAAGTCATATGAATGATTCCTAAAATCACGGACATTTTCATTTTGA

106262 IS    [TC]      TATAAATATTGCTTAAAAAAAAATCTGTACTTACAAGTGGTTAAATATTCCCAGAATGAC[TC]CCAAAAGTCATATGAATGATTCCTAAAATCACGGACATTTTCATTTTGAAAGAGTTTAGA
106274 I       S      CACAGAGTTGACGATGTTGGCCCACGGCT
106274 P     C S      ATGACGTGGCAGACGATGTTGGCGTGGAGY
106274 P     T S      CGCGCCGAGGAATGTTGGCGTGGAGY
106274 T     C S      CGGCCTCCACGCCAACATCGCCGTGGCCAACATCGTCAACTCTGTGAA
106274 T     T S      CGGCCTCCACGCCAACATTGCCGTGGCCAACATCGTCAACTCTGTGAA

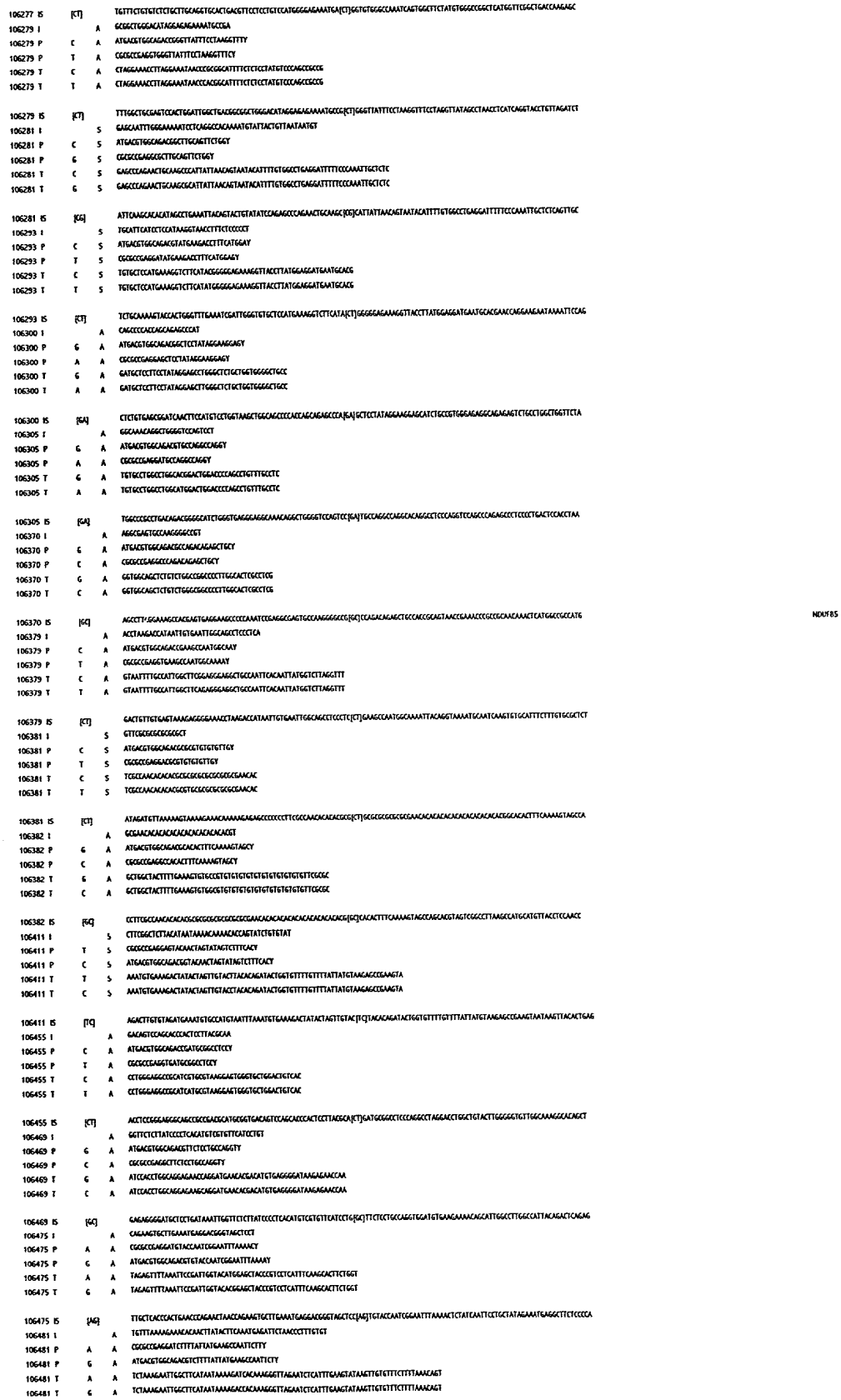
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106277 I       S      CCACATAGAAGCCACTGATTTGGCCCACACCT
106277 P     C S      ATGACGTGGCAGACGTCATTTCTCCCCATGGY
106277 P     T S      CGCGCCGAGGATCATTTCTCCCCATGGAY
106277 T     C S      CCTGTCCATGGGGACAAATGACGGTGTGGGCCAAATCAGTGGCTTCTATGTGGGC
106277 T     T S      CCTGTCCATGGGGACAAATGATGGTGTGGGCCAAATCAGTGGCTTCTATGTGGGC
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KCNN3

BHLHB2

FLJ14497

FIGURE 129G



NDUFB5

FIGURE 129G

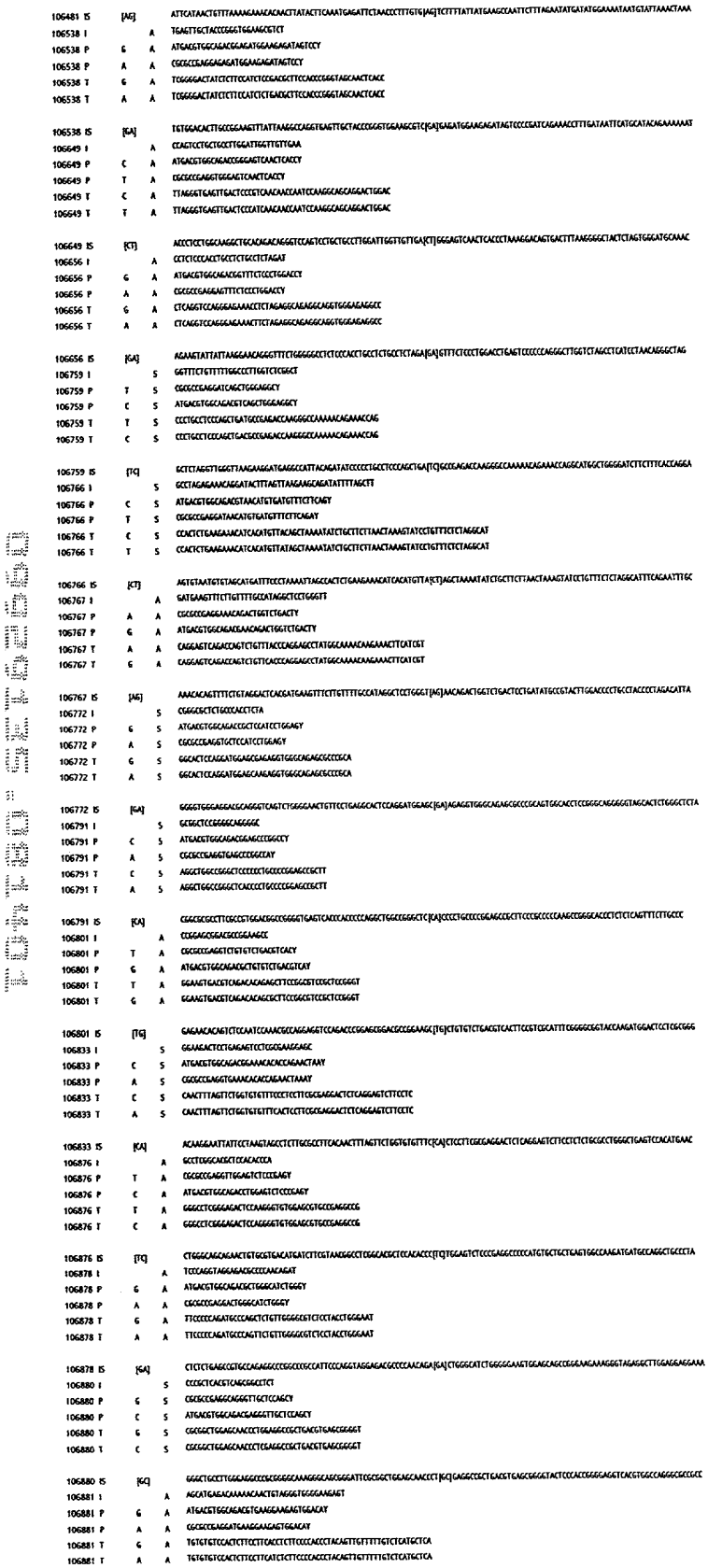
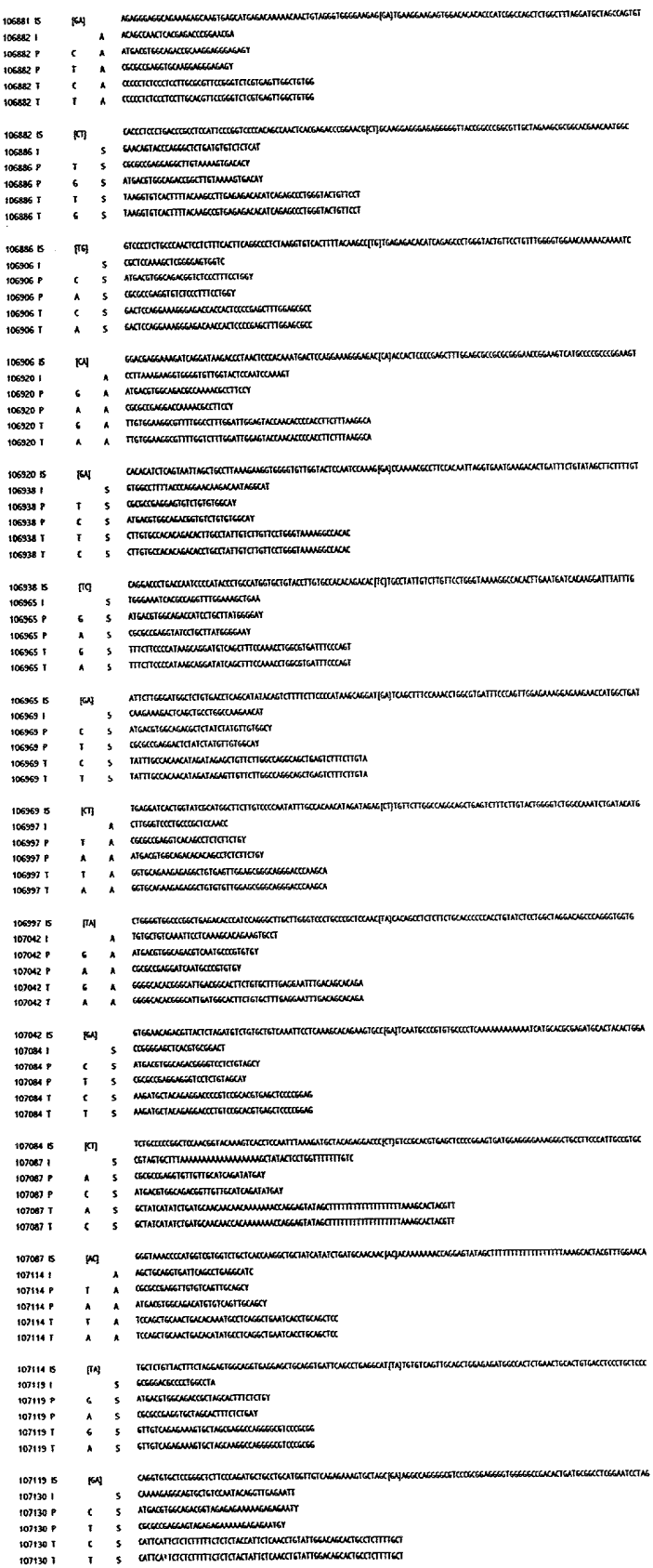

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106538 I A TGAGTTGCTACCCGGGTGGAAGCGTCT
106538 P G A ATGACGTGGCAGACGGAGATGGAAAGAGATAGTCCY
106538 P A A CGCGCCGAGGAGAGATGGAAGAGATAGTCCY
106538 T G A TCGGGGACTATCTCTTCCATCTCCGACGCTTCCACCCGGGTAGCAACTCACC
106538 T A A TCGGGGACTATCTCTTCCATCTCTGACGCTTCCACCCGGGTAGCAACTCACC
106538 IS [GA] TGTGGACACTTGCCGGAAGTTTATTAAGGCCAGGTGAGTTGCTACCCGGGTGGAAGCGTC[GA]GAGATGGAAGAGATAGTCCCCGATCAGAAACCTTTGATAATTCATGCATACAGAAAAAAT
106649 I A CCAGTCCTGCTGCCTTGGATTGGTTTGTTGAA
106649 P C A ATGACGTGGCAGACCGGGAGTCAACTCACCY
106649 P T A CGCGCCGAGGTGGGAGTCAACTCACCY
106649 T C A TTAGGGTGAGTTGACTCCCGTCAACAACCAATCCAAGGCAGCAGGACTGGAC
106649 T T A TTAGGGTGAGTTGACTCCCATCAACAACCAATCCAAGGCAGCAGGACTGGAC
106649 IS [CT] ACCCTCCTGGCAAGGCTGCACAGACAGGGTCCAGTCCTGCTGCCTTGGATTGGTTGTTGA[CT]GGGAGTCAACTCACCCTAAAGGACAGTGACTTTAAGGGGCTACTCTAGTGGCATGCAAAC
106656 I A CCTCTCCCACCTGCCTCTGCCTCTAGAT
106656 P G A ATGACGTGGCAGACGGTTTCTCCCTGGACCY
106656 P A A CGCGCCGAGGAGTTTCTCCCTGGACCY
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106656 T A A CTCAGGTCCAGGGAGAAACTTCTAGAGGCAGAGGCAGGTGGGAGAGGCC
106656 IS [GA] AGAAGTATTATTAAGGAACAGGGTTTCTGGGGGGCCTCTCCCACCTGCCTCTGCCTCTAGA[GA]GTTTCTCCCTGGACCTGAGTCCCCCAGGGCTTGGTCTAGCCTCATCCTAACAGGGCTAG
106759 I S GGTTTCTGTTTTTGGCCCTTGGTCTCCGCT
106759 P T S CGCGCCGAGGATCAGCTGGGAGGCY
106759 P C S ATGACGTGGCAGACGTCAGCTGGGAGGCY
106759 T T S CCCTGCCTCCCAGCTGATGCCGAGACCAAGGGCCAAAAACAGAAACCAG
106759 T C S CCCTGCCTCCCAGCTGACGCCGAGACCAAGGGCCAAAAACAGAAACCAG
106759 IS [TC] GCTCTAGGTTGGGTTAAGAAGGATGAGGCCATTACAGATATCCCCCTGCCTCCCAGCTGA[TC]GCCCAGACCAAGGGCCAAAAACAGAAACCAGGCATGGCTGGGGATCTTCTTTCACCAGGA
106766 I S GCCTAGAGAAACAGGATACTTAGTTAAGAAGCAGATATTTTAGCTT
106766 P C S ATGACGTGGCAGACGTAACATGTGATGTTTCTCAGY
106766 P T S CGCGCCGAGGATAACATGTGATGTTTCTCAGAY
106766 T C S CCACTCTGAAGAAACATCACATGTTACAGCTAAAATATCTGCTTCTTAACTAAAGTATCCTGTTTCTCTAGGCAT
106766 T T S CCACTCTGAAGAAACATCACATGTTATAGCTAAAATATCTGCTTCTTAACTAAAGTATCCTGTTTCTCTAGGCAT
106766 IS [CT] AGTGTAATGTGTAGCATGATTTCCCTAAAATTAGCCACTCTGAAGAAACATCACATGTTA[CT]AGCTAAAATATCTGCTTCTTAACTAAAGTATCCTGTTTCTCTAGGCATTTCAGAATTTGC
106767 I A GATGAAGTTTCTTGTTTTGCCATAGGCTCCTGGGTT
106767 P A A CGCGCCGAGGAAACAGACTGGTCTGACTY
106767 P G A ATGACGTGGCAGACGAACAGACTGGTCTGACTY
106767 T A A CAGGAGTCAGACCAGTCTGTTACCCAGGAGCCTATGGCAAAACAAGAAACTTCATCGT
106767 T G A CAGGAGTCAGACAAGTCTGTTCACCCAGGAGCCTATGGCAAAACAAGAAACTTCATCGT
106767 IS [AG] AAACACAGTTTTCTGTAGGACTCACGATGAAGTTTCTTGTTTTGCCATAGGCTCCTGGGT[AG]AACAGACTGGTCTGACTCCTGATATGCCGTACTTGGCACCCCTGCCTACCCCTAGACATTA
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106772 P G S ATGACGTGGCAGACCGCTCCATCCTGGAGY
106772 P A S CGCGCCGAGGTGCTCCATCCTGGAGY
106772 T G S GGCACTCCAGGATGGAGCAAGAGGTGGGCAGAGCGCCCGCA
106772 T A S GGCACTCCAGGATGGAGCAAGAGGTGGGCAGAGCGCCCGCA
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106801 P G A ATGACGTGGCAGACGCTGTGTCTGACGTCAY
106801 T T A GGAAGTGACGTCAGACACAGAGCTTCCGGCGTCCGCTCCGGGT
106801 T G A GGAAGTGACGTCAGACACAGCGCTTCCGGCGTCCGCTCCGGGT
106801 IS [TG] GAGAACACAGTCTCCAATCCAAACGCCAGGAGGTCCAGACCCGGAGCGGACGCCGGAAGC[TG]CTGTGTCTCGACGTCACTTCCGTCGCATTTCGGGGCGGTACCAAGATGGACTCCTCGCGGG
106833 I S GGAAGACTCCTGAGAGTCCTCGCGAAGGAGC
106833 P C S ATGACGTGGCAGACGGAAACACACCAGAACTAAY
106833 P A S CGCGCCGAGGTGAAACACACCAGAACTAAAT
106833 T C S CAACTTTAGTTCTGGTGTGTTTCCCTCCTCGCGAGGACTCTCAGGAGTCTTCCTC
106833 T A S CAACTTTAGTTCTGGTGTGTTTCACTCCTCCGCGAGGACTCTCAGGAGTCTTCCTC
106833 IS [CA] ACAAGGAATTATTCCTAAGTAGCCTCTTGCGCCTTCACAACTTTAGTTCTGGTGTGTTTC[CA]CTCCTTCGGCAGGACTCTCAGGAGTCTTCCTCTCTGCGCCTGGGCTGAGTCCACATGAAC
106876 I A GCCTCGGCACGCTCCACACCCA
106876 P T A CGCGCCGAGGTTGGAGTCTCCCGAGY
106876 P C A ATGACGTGGCAGACCTGGAGTCTCCCGAGY
106876 T T A GGGCCTCGGGAGACTCCAAGGGTGTGGAGCGTGCCGAGGCCG
106876 T C A GGGCCTCGGGAGACTCCAGGGGTGTGGAGCGTGCCGAGGCCG
106876 IS [TC] CTGGGCAGCAGAACTGTGCGTGACATGATCTTCGTAAGGGCCTCGGCACGCTCCACACCC[TC]TGGAGTCTCCCGAGGCCCCCATGTGCTGCTGAGTGGCCAAGATGATGCCAGGCTGCCCTA
106878 I A TCCCAGGTAGGAGAGCGCCCCAACAGAT
106878 P G A ATGACGTGGCAGACGCTGGGCATCTGGGY
106878 P A A CGCGCCGAGACTGGGCATCTGGGY
106878 T G A TTCCCCCAGATGCCCAGCTCTGTTGGGGCGTCTCCTACCTGGGAAT
106878 T A A TTCCCCCAGATGCCCAGTTCTGTTGGGGCGTCTCCTACCTGGGAAT
106878 IS [GA] CTCTCTGAGCCGTGCCAGAGGCCCGGCCCGCCATTCCCAGGTAGGAGACGCCCCAACAGA[GA]CTGGGCATCTGGGGCAAGTGAGAGCAGCCGGGAAGAAAGGGTAGAGGCTTGGAGGAGGAAA
106880 I S CCCGCTCACGTCAGCGGCCTCT
106880 P G S CGCGCCGAGGCAGGGTTGCTCCAGCY
106880 P C S ATGACGTGGCAGACGAGGGTTGCTCCAGCY
106880 T G S CGCGGCTGGAGCAACCCTGGAGGCCGCTGACGTGAGCGGGGT
106880 T C S CGCGGCTGGAGCAACCCTCGAGGCCGCTGACGTGAGCGGGGT
106880 IS [GC] GGGCTGCCTTGGGAGGCCGCGGGGCAAAGGGCAGCGGGATTCGCGGCTGGAGCAACCCT[GC]GAGGCCGCTGACGTGAGCGGGGTACTCCCACCGGGGAGGTCACGTGGCCAGGGCGCCGCC
106881 I A AGCATGAGACAAAAACAACTGTAGGGTGCGGAAGAGT
106881 P G A ATGACGTGGCAGACGTGAAGGAAGAGTGGACAT
106881 P A A CGCGCCGAGGATGAAGGAAGAGTGGACAT
106881 T G A TGTGTGTCCACTCTTCCTTCACCTCTTCCCCACCCTACAGTTGTTTTTGTCTCATGCTCA
106881 T A A TGTGTGTCCACTCTTCCTTCATCTCTTCCCCACCCTACAGTTGTTTTTGTCTCATGCTCA

FIGURE 129G



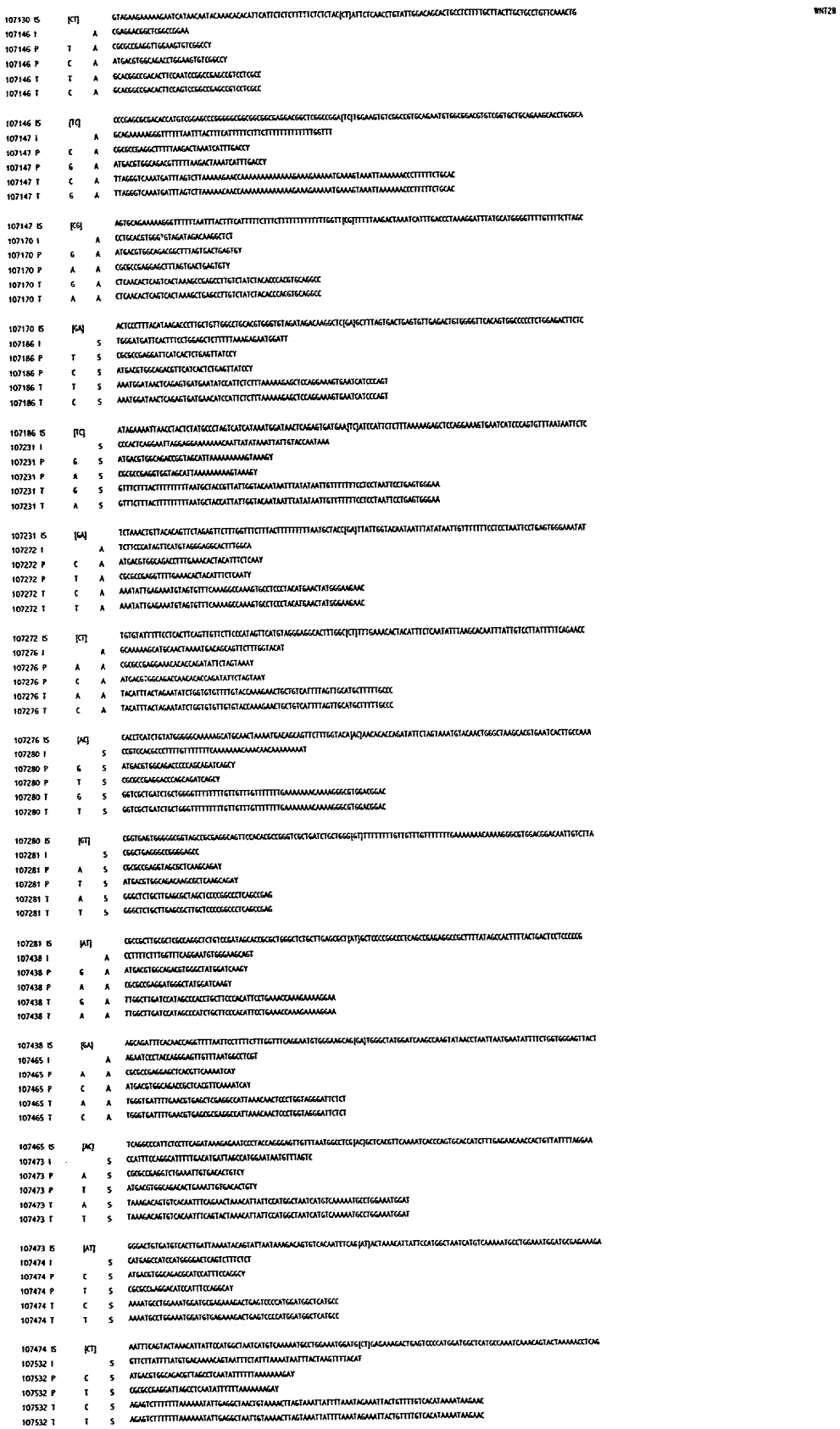

WNT2B

FIGURE 129G

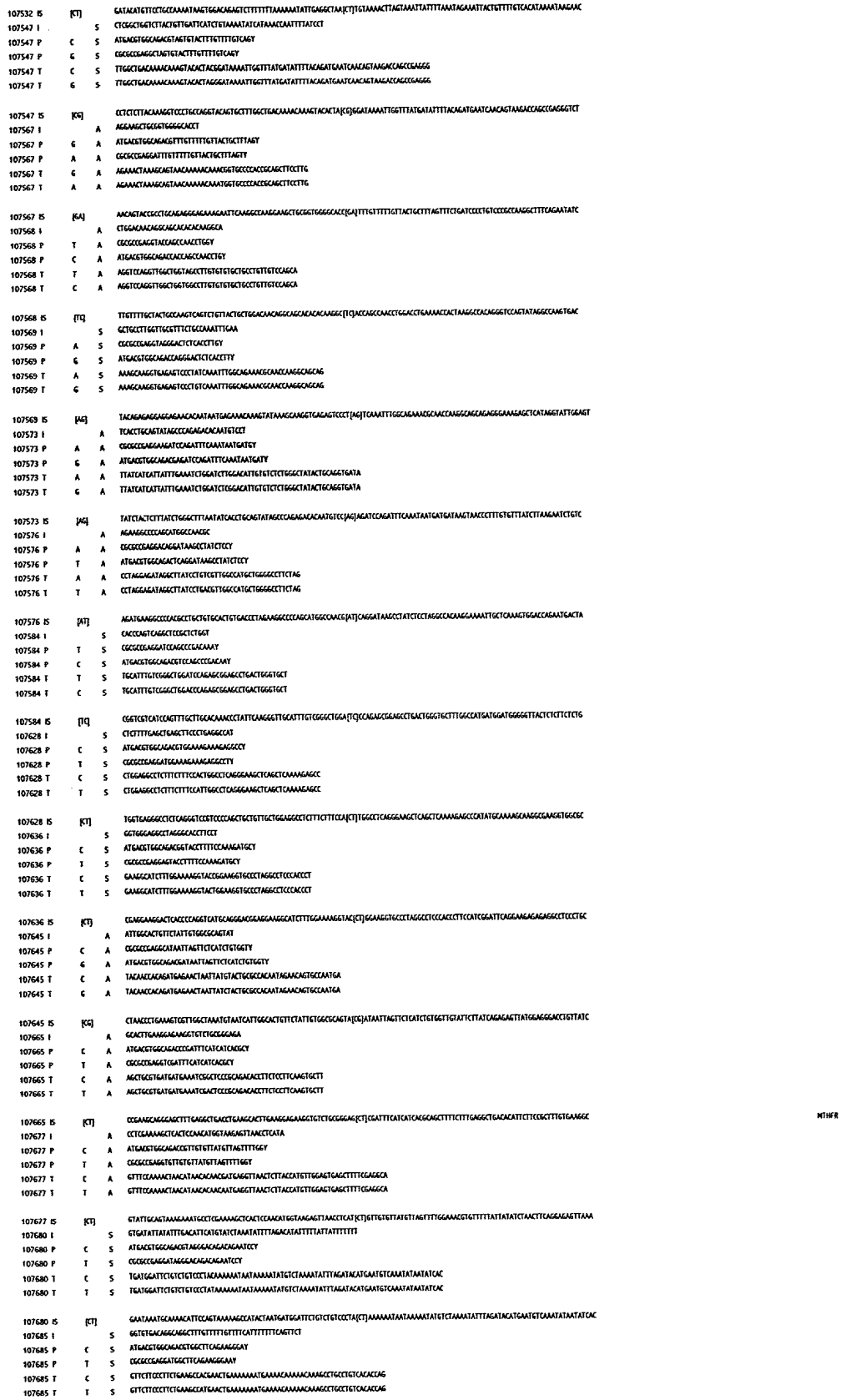
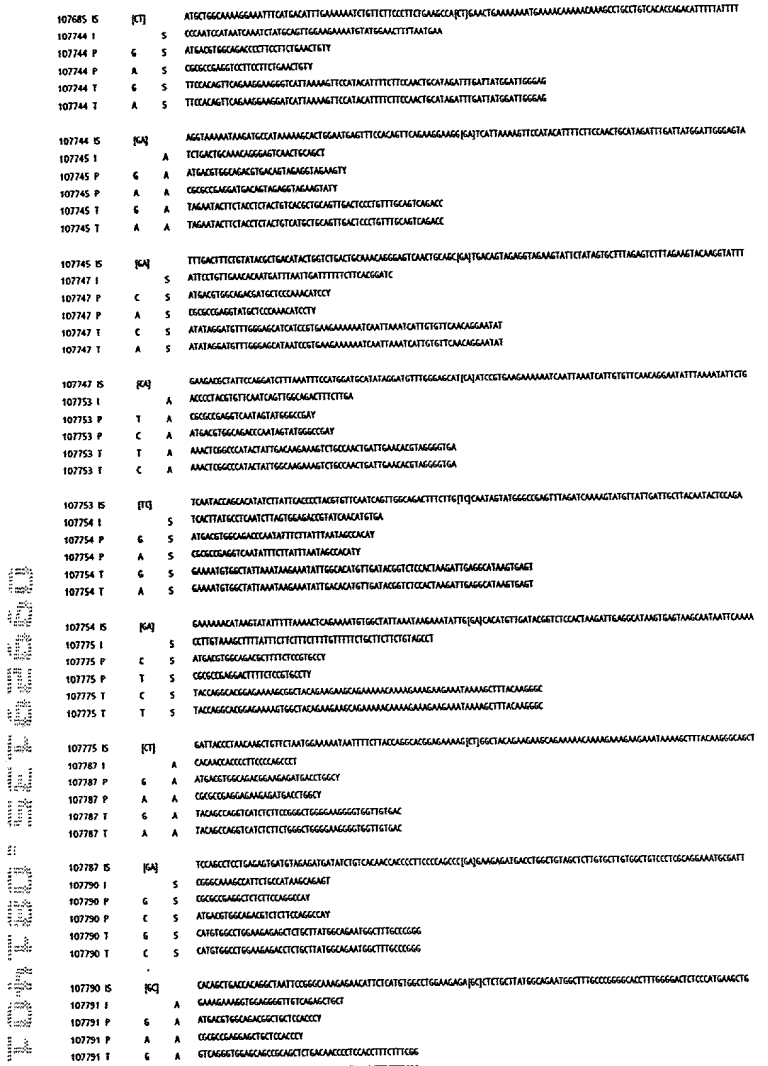


FIGURE 129G



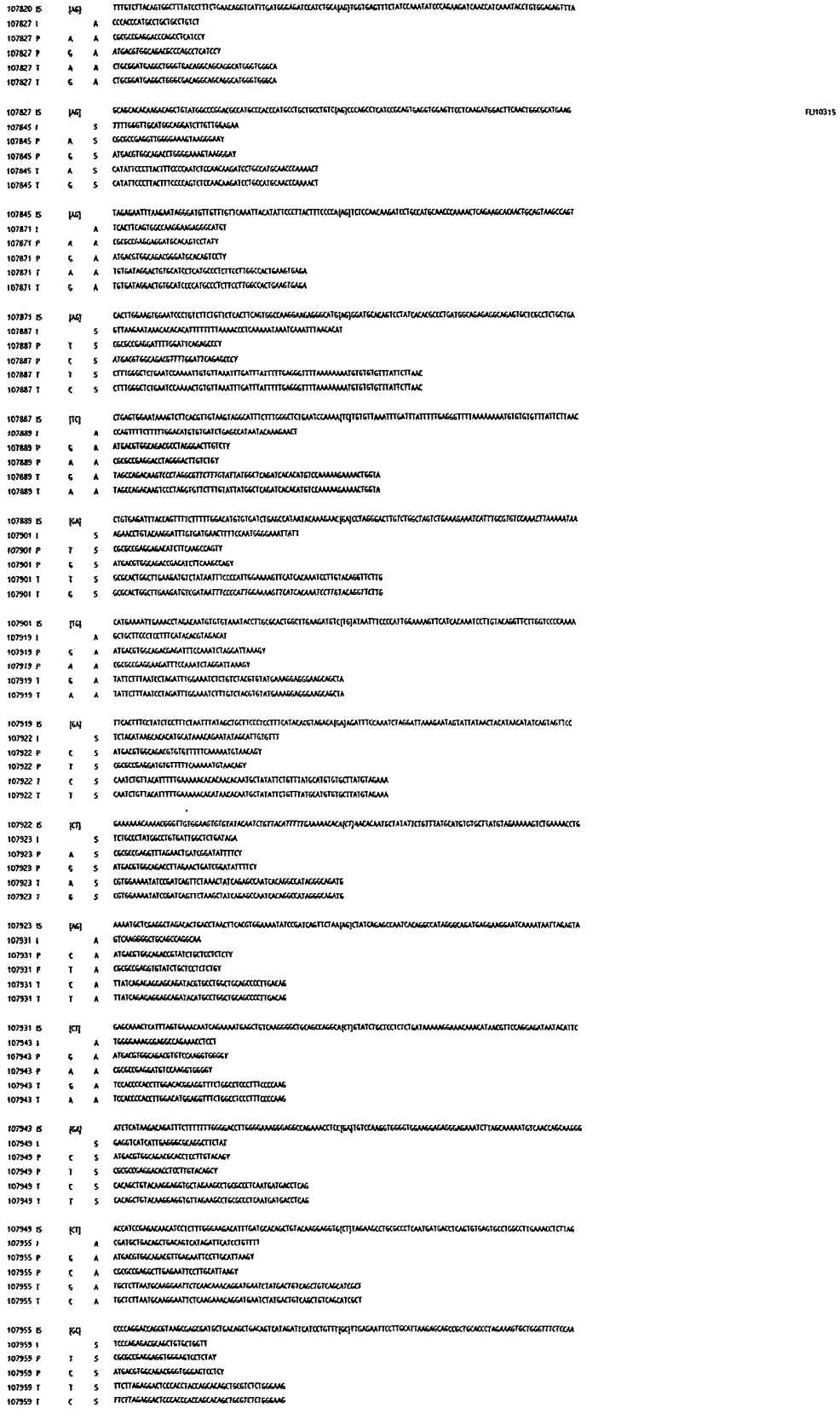


FIGURE 129G

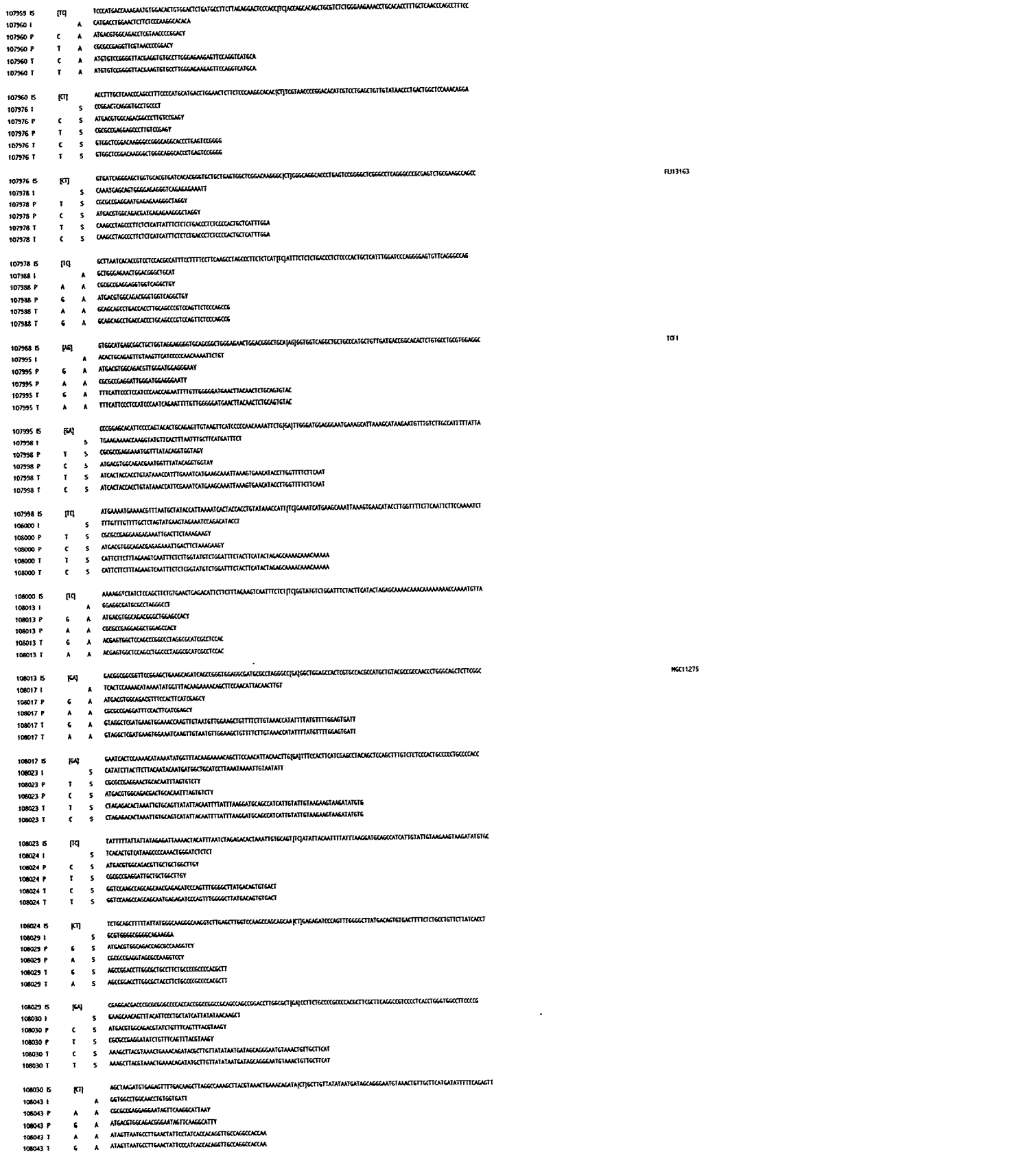
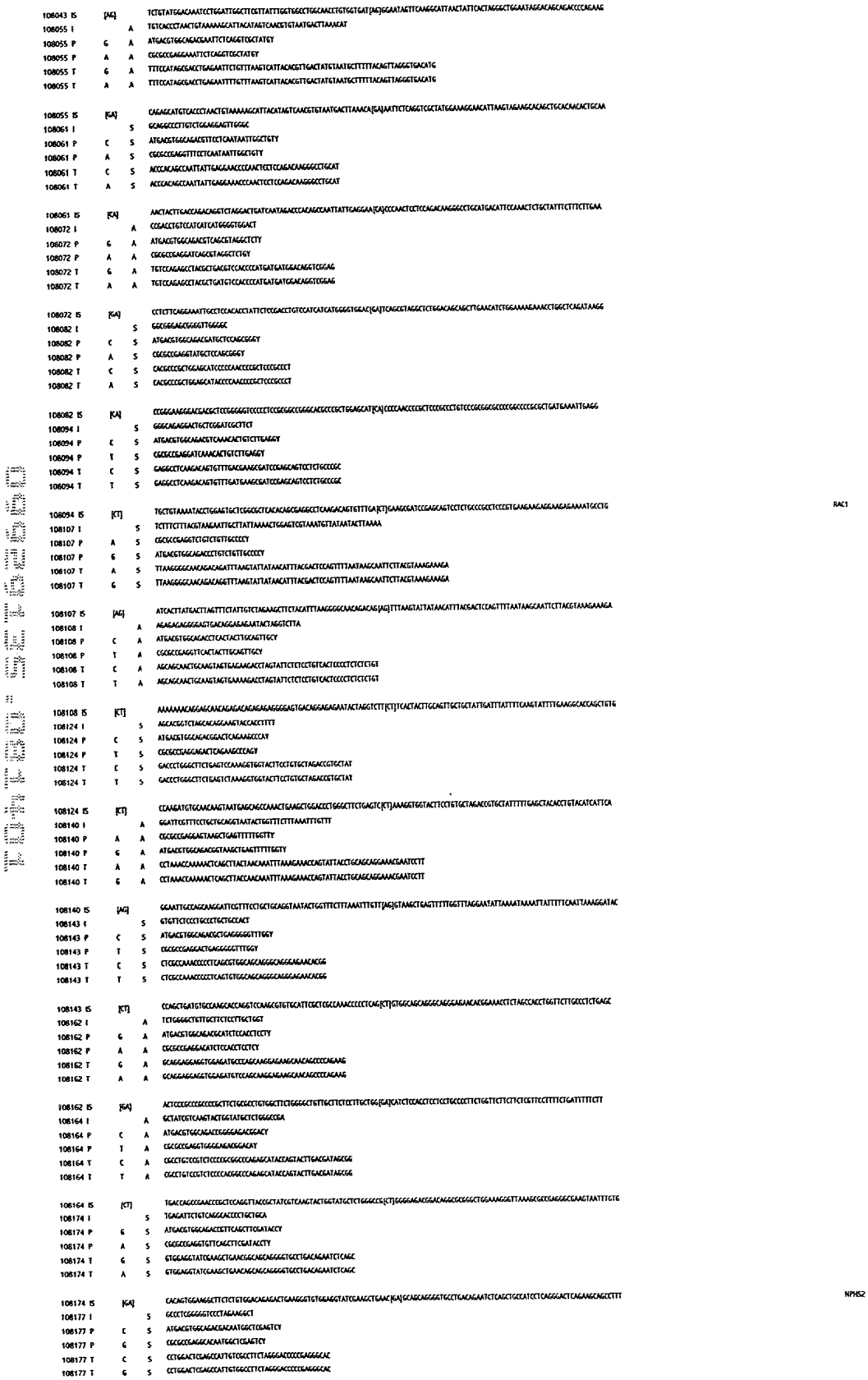


FIGURE 129G



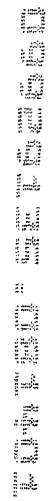


FIGURE 129G

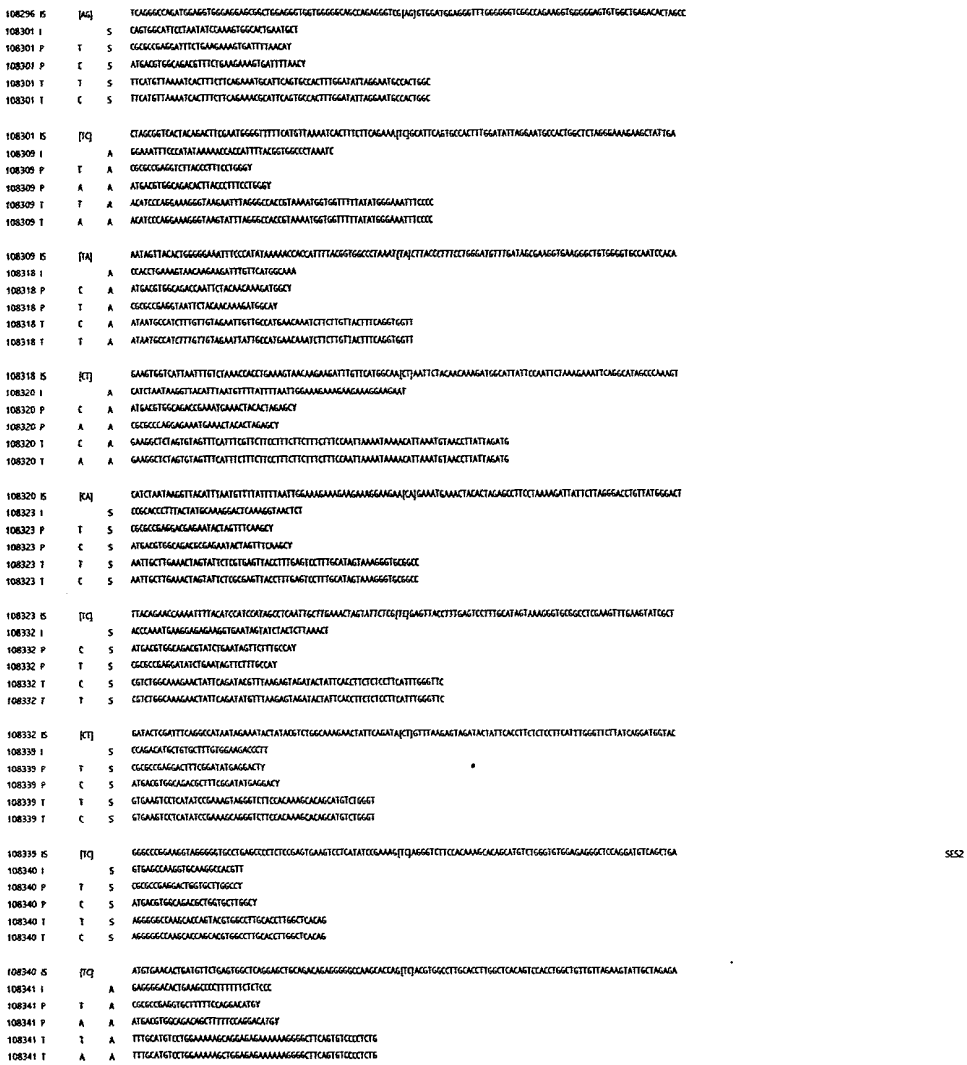
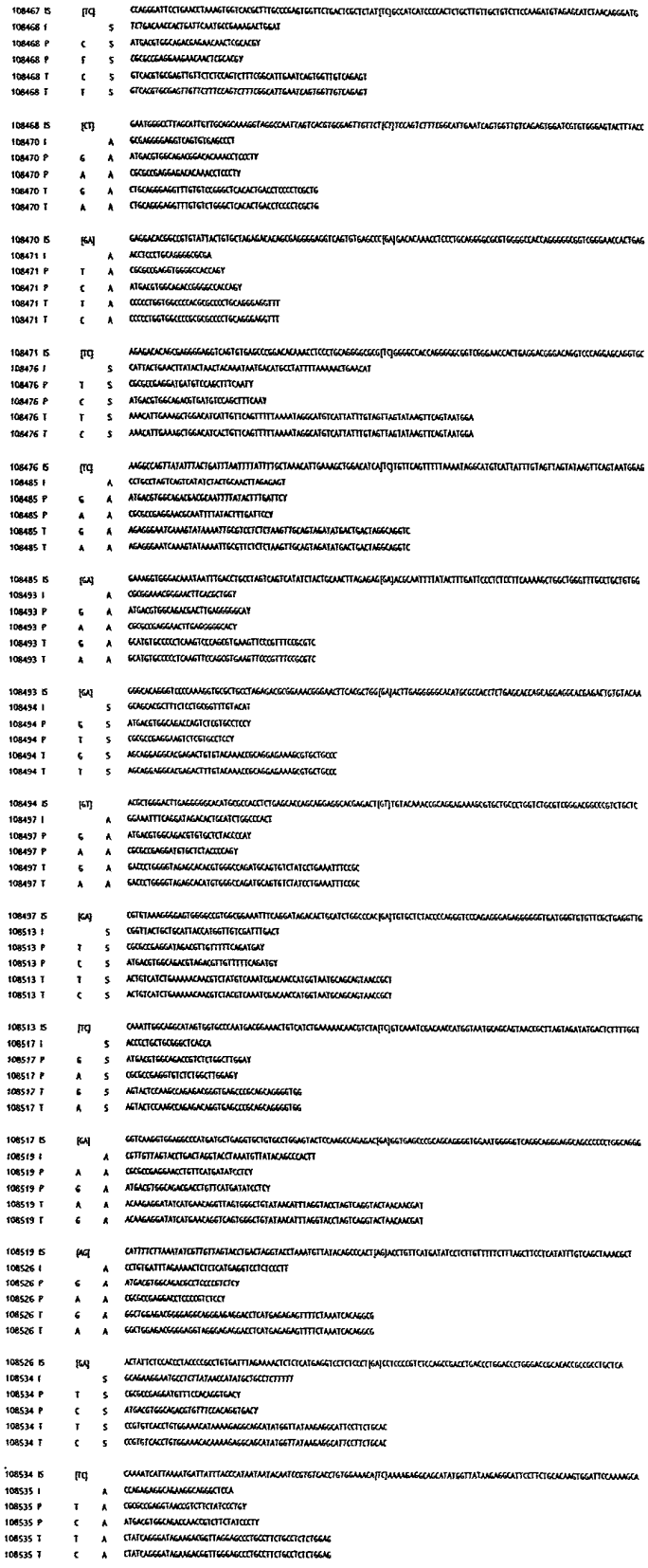


FIGURE 129G


108467 IS [TC] CCAGGGATTCCTGAACCTAAAGTGGTCACGCTTTGCCCCAGTGGTTCTGACTCGCTCTATTCTCGCCATCATCCCCACTCTGCTTGTGCTGTCTTCCAAGATGTAGAGCATCTAACAGGGATG
108468 I S TCTGAGAACCACTGATTCAATGCCGAAAGACTGGAT
108468 P C S ATGACGTGGCAGACAGAACAACTCGCACGY
108468 P T S CGCCCCGAGGAAGAACAACTCGCACGY
108468 T C S GTCACGTGCCAGTTGTTCTCTCCAGTCTTTCGGCATTGAATCAGTGGTTGTCAGAGT
108468 T T S GTCACGTGCCAGTTGTTCTTTCCAGTCTTTCGGCATTGAATCAGTGGTTGTCAGAGT

108468 IS [CT] GAATGGGCCTTAGCATTGTTGCAGCCAAAGGTAGGCCAATTAGTCACGTGCGAGTTGTTCT[CT]TCCAGTCTTTCGGCATTGAATCAGTGGTTGTCAGAGTGGATCGTGTGGGAGTACTTTACC
108470 I A GCCAGGGGAGGTCAGTGTGAGCCCT
108470 P G A ATGACGTGGCAGACAGGACACAAACCTCCCTY
108470 P A A CGCGCCGAGGAAGACACAAACCTCCCTY
108470 T G A CTGCAGGGAGGTTTGTGTCCGGGCTCACACTGACCTCCCCTCGCTG
108470 T A A CTGCAGGGAGGTTTGTGTCTGGGCTCACACTGACCTCCCCTCGCTG

108470 IS [GA] GAGGACACGGCGTGTATTACTGTGCTAGAGACACAGCGAGGGGAGGTCAGTGTGAGCCC[GA]GACACAAACTCCCTGCAGGGGCGCGTGGGGCCACCAGGGGGCGTCGGGAACCACTGAG
108471 I A ACCTCCCTGCAGGGGCGCGA
108471 P T A CGCGCCGAGGTGGGGCCACCAGY
108471 P C A ATGACGTGGCACACCGGGGCCACCAGY
108471 T T A CCCCCTGGTGGCCCCACGCGCCCTGCAGGGAGGTTT
108471 T C A CCCCCTGGTGGCCCCGCGCGCCCCTGCAGGGAGGTTT

108471 IS [TC] AGAGACACAGCGAGGGGAGGTCAGTGTGAGCCCGGACACAAACCTCCCTGCAGGGGCGCG[TC]GGGGCCACCAGGGGGCGGTCGGGAACCACTGAGGACGGGACAGGTCCCAGGAGCAGGTGC
108476 I S CATTACTGAACTTATACTAACTACAAATAATGACATGCCTATTTTAAAAACTGAACAT
108476 P T S CGCGCCGAGGAGTGATGTCCAGCTTTCAATY
108476 P C S ATGACGTGGCAGAGTGATGTCCAGCTTTCAAY
108476 T T S AAACATTGAAAGCTGGACATCATTGTTCAGTTTTTAAAATAGGCATGTCATTATTTGTAGTTAGTATAAGTTCAGTAATGGA
108476 T C S AAACATTGAAAGCTGGACATCACTGTTCAGTTTTTAAAATAGGCATGTCATTATTTGTAGTTAGTATAAGTTCAGTAATGGA

108476 IS [TC] AAGGCAGTTATATTTACTGATTTAATTTTATTTGCTAAACATTGAAAGCTGGACATCA[TC]TGTTCAGTTTTTAAAATAGGCATGTCATTATTTGTAGTTAGTATAAGTTCAGTAATGGAG
108485 I A CCTGCCTAGTCAGTCATATCTACTGCAACTTAGAGAGT
108485 P G A ATGACGTGGCAGACAGACGCAATTTTATACTTTGATTCY
108485 P A A CGCGCCGAGGAACGCAATTTTATACTTTGATTCCY
108485 T G A AGAGGGAATCAAAGTATAAAATTGCGTTCTCTCTAAGTTGCAGTAGATATGACTGACTAGGCAGGTC
108485 T A A AGAGGGAATCAAAGTATAAAATTGCGTTCTCTCTAAGTTGCAGTAGATATGACTGACTAGGCAGGTC

108485 IS [GA] GAAAGGTGGGCACAAATAATTTGACCTGCCTAGTCAGTCATATCTACTGCAACTTAGAGAG[GA]ACGCAATTTTATACTTTGATTCCCTCTCCTTCAAAAGCTGGCTGGGTTTGCCTGCTGTGG
108493 I A CGCGGAAACGGGAACTTCACGCTGGT
108493 P G A ATGACGTGGCAGACGACTTGAGGGGGCAT
108493 P A A CGCGCCGAGGAACTTGAGGGGGCACY
108493 T G A GCATGTGCCCCCTCAAGTCCCAGGGTGAAGTTCCCGTTTCCCGGTC
108493 T A A GCATGTGCCCCCTCAAGTTCCAGGGTGAAGTTCCCGTTTCCCGGTC

108493 IS [GA] GGGCACAGGGTCCCCAAAGGTGCGCTGCCTAGAGACGCGGAAACGGGAACTCAGGCTGG[GA]ACTTGAGGGGGCACATGCGCCACCTCTGAGCACCAGCAGCAGGCACGAGACTGTGTACAA
108494 I S GCAGCACGCTTTCTCCTGCGGTTTGTACAT
108494 P G S ATGACGTGGCAGACCAGTCTGTGCCTCCY
108494 P T S CGCGCCGAGGAAGTCTCGTGCCTCCY
108494 T G S AGCAGGAGGCACGAGACTGTGTACAAACCGCAGGAGAAAGCGTGCTGCCC
108494 T T S AGCAGGAGGCACGAGACTTTGTACAAACCGCAGGAGAAAGCGTGCTGCCC

108494 IS [GT] ACGCTGGGACTTGAGGGGGCACATGCGCCACCTCTGAGCACCAGCAGGAGGCACGAGACT[GT]TGTACAAACCGCAGGAGAAAGCGTGCTGCCCTGGTCTGCGTCGGGACGGCCCGTCTGCTC
108497 I A GGAAATTTCAGGATAGACACTGCATCTGGCCCACT
108497 P G A ATGACGTGGCAGACGTGTGCTCTACCCCAY
108497 P A A CGCGCCGAGGATGTGCTCTACCCCAGY
108497 T G A GACCCTGGGGTAGAGCACACGTGGGCCAGATGCAGTGTCTATCCTGAAATTTCCGC
108497 T A A GACCCTGGGGTAGAGCACATGTGGGCCAGATGCAGTGTCTATCCTGAAATTTCCGC

108497 IS [GA] CGTGTAAAGGGGAGTGGGGCCGTGGCGGAAATTTCAGGATAGACACTGCATCTGGCCCAC[GA]TGTGCTCTACCCCAGGGTCCCAGAGGGAGAGGGGGGTGATGGGTGTGTTCGCTGAGGTTG
108513 I S CGGTTACTGCTGCATTACCATGGTTGTCGATTTGACT
108513 P T S CGCGCCGAGGATAGACGTTGTTTTCAGATGAY
108513 P C S ATGACGTGGCAGACGTAGACGTTGTTTTTCAGATGY
108513 T T S ACTGTCATCTGAAAAACAACGTCTATGTCAAATCGACAACCATGGTAATGCAGCAGTAACCGCT
108513 T C S ACTGTCATCTGAAAAACAACGTCTACGTCAAATCGACAACCATGGTAATGCAGCAGTAACCGCT

108513 IS [TC] CAAATTGGCAGGCATAGTGGTGCCCAATGACGCAAACTGTCATCTGAAAAACAACGTCTA[TC]GTCAAATCGACAACCATGGTAATGCAGCAGTAACCGCTTAGTAGATATGACTCTTTTGGT
108517 I S ACCCCTGCTGCGGGCTCACCA
108517 P G S ATGACGTGGCAGACCGTCTCTGGCTTGGAY
108517 P A S CGCGCCGAGGTGTCTCTGGCTTGGAGY
108517 T G S AGTACTCCAAGCCAGAGACGGGTGAGCCCGCAGCAGGGGTGG
108517 T A S AGTACTCCAAGCCAGAGACAGGTGAGCCCGCAGCAGGGGTGG

108517 IS [GA] GGTCAAGGTGGAGGCCCATGATGCTGAGGTGCTGTGCCTGGAGTACTCCAAGCCAGAGAC[GA]GGTGAGCCCGCAGCAGGGGTGGAATGGGGGTCAGGCAGGGAGGCAGCCCCCTGGCAGGG
108519 I A CGTTGTTAGTACCTGACTAGGTACCTAAATGTTATACAGCCCACTT
108519 P A A CGCGCCGAGGAACCTGTTCATGATATCCTCY
108519 P G A ATGACGTGGCAGACGACCTGTTCATGATATCCTCY
108519 T A A ACAAGAGGATATCATGAACAGGTTAGTGGGCTGTATAACATTTAGGTACCTAGTCAGGTACTAACAACGAT
108519 T G A ACAAGAGGATATCATGAACAGGTCAGTGGGCTGTATAACATTTAGGTACCTAGTCAGGTACTAACAACGAT

108519 IS [AG] CATTTTCTTAAATATCGTTGTTAGTACCTGACTAGGTACCTAAATGTTATACAGCCCACT[AG]ACCTGTTCATGATATCCTCTTGTTTTTCTTTAGCTTCCTCATATTTGTCAGCTAAACGCT
108526 I A CCTGTGATTTAGAAAACTCTCTCATGAGGTCCTCCCCTT
108526 P G A ATGACGTGGCAGACGCCTCCCCGTCTCY
108526 P A A CGCGCCGAGGAACTCCCCGTCTCCY
108526 T G A GGCTGGAGACGGGGAGGCAGGGAGAGGACCTCATGAGAGAGTTTTCTAAATCACAGGCG
108526 T A A GGCTGGAGACGGGGAGGTAGGGAGAGGACCTCATGAGAGAGTTTTCTAAATCACAGGCG

108526 IS [GA] ACTATCTCCACCCTACCCCGCCTGTGATTTAGAAAACTCTCTCATGAGGTCCTCTCCT[GA]CCTCCCCGTCTCCAGCCGACCTGACCCTGGACCCTGGGACCGCAACCCGCCGCTGCTCA
108534 I S GCAGAAGGAATGCCTCTATAACCATATGCTGCCTCTTTTT
108534 P T S CGCGCCGAGGATGTTCCCACAGGTGACY
108534 P C S ATGACGTGGCAGACGTGTTTCCCACAGGTGACY
108534 T T S CCGTGTCACCTGTGGAAACATAAAAGAGGCAGCATATGGTTATAAGAGGCATTCCTTCTGCAC
108534 T C S CCGTGTCACCTGTGGAAACACAAAAGAGGCAGCATATGGTTATAAGAGGCATTCCTTCTGCAC

108534 IS [TC] CAAAATCATTAAAATGATTATTTACCCATAATAATACAATCCGTGTCACCTGTGGAAACA[TC]AAAAGAGGCAGCATATGGTTATAAGAGGCATTCCTTCTGCACAAGTGGATTCCAAAAGCA
108535 I A CCAGAGAGGCAGAGGCAGGCTCCA
108535 P T A CGCGCCGAGGTAACCGTCTTCTATCCCTGY
108535 P C A ATGACGTGGCAGACCAACCGTCTTCTATCCCTY
108535 T T A CTATCAGGGATAGAAGACGGTTAGGAGCCCTGCCTTCTGCCTCTCTGGAG
108535 T C A CTATCAGGGATAGAAGACGGTTGGGAGCCCTGCCTTCTGCCTCTCTGGAG

FIGURE 129G

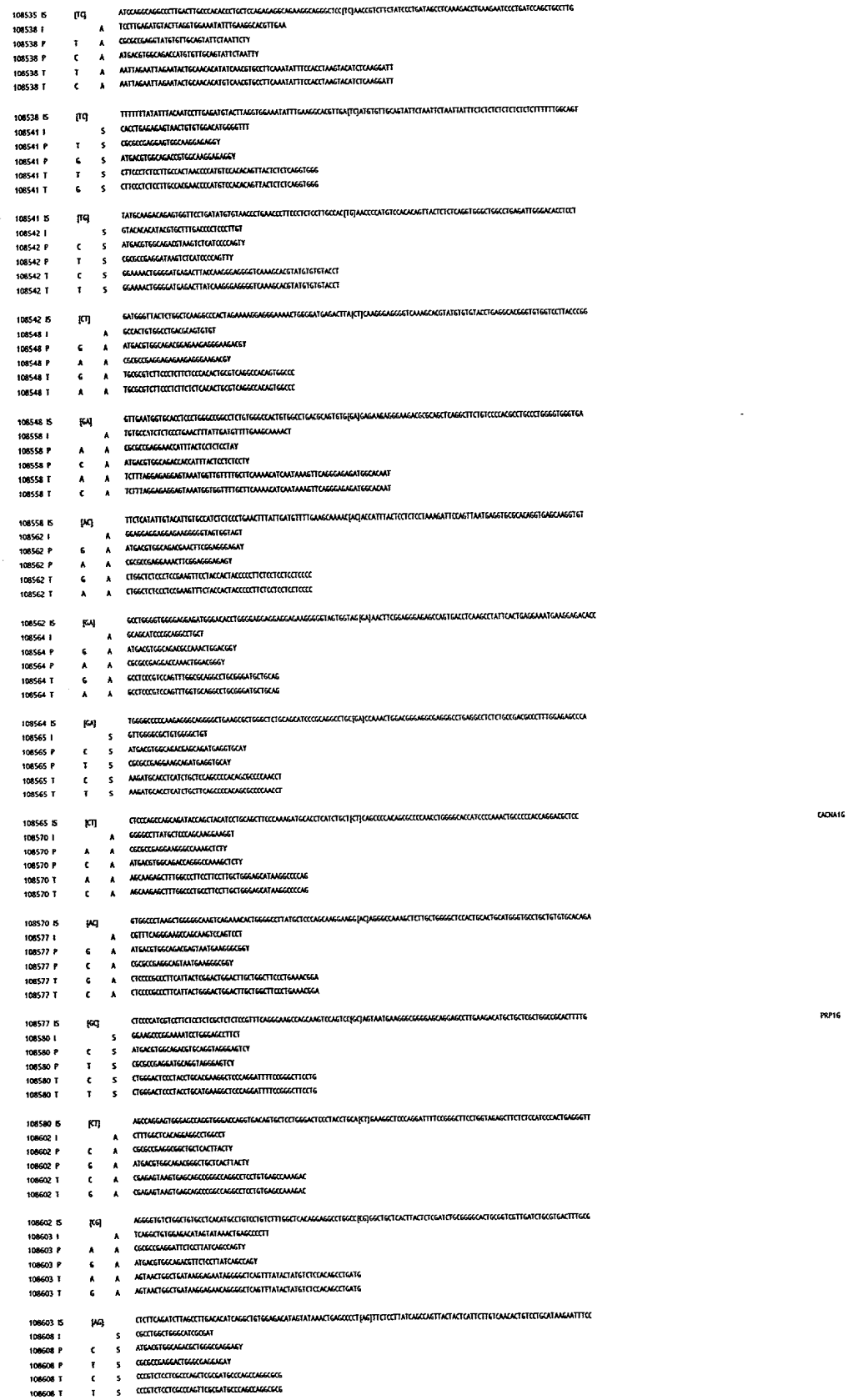


FIGURE 129G

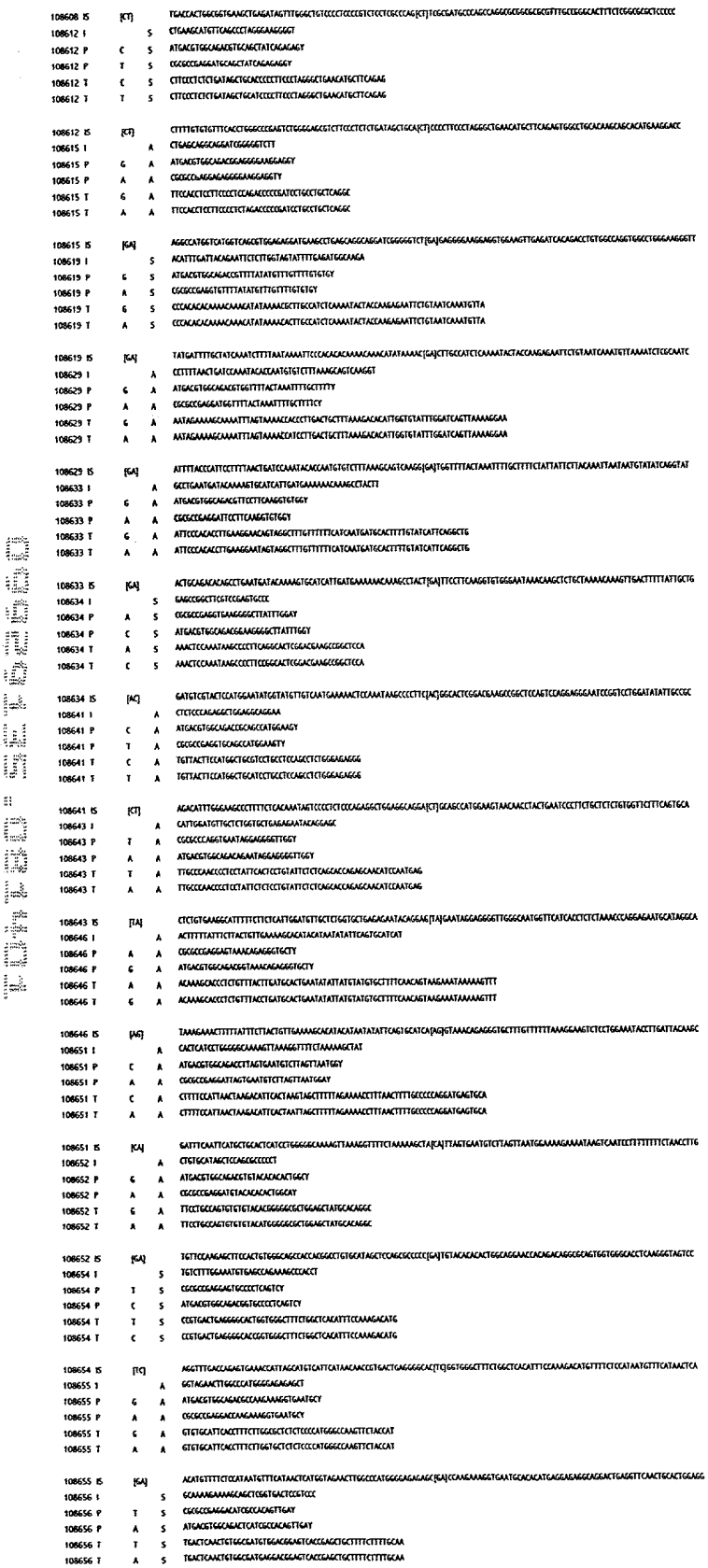

108608 IS [CT] TGACCACTGGCGGTGAAGCTGAGATAGTTTGGGCTGTCCCCTCCCCGTCTCCTCGCCCAG[CT]TGGCGATGCCCAGCCAGGCGCGGGCGCGTTTGCTGGGGCACTTTCTCGGCGGCTCCCCC
108612 I S CTGAAGCATGTTCAGCCCTAGGGAAGGGGT
108612 P C S ATGACGTGGCAGAGTGCAGCTATCAGACAGY
108612 P T S CGCGCCGAGGATGCAGCTATCAGACAGGY
108612 T C S CTTCCCTCTCTGATAGCTGCACCCCCTTCCCTAGGGCTGAACATGCTTCAGAG
108612 T T S CTTCCCTCTCTGATAGCTGCATCCCCTTCCCTAGGGCTGAACATGCTTCAGAG
108612 IS [CT] CTTTTGTGTGTTTCACCTGGGCCCGAGTCTGGGGAGCGTCTTCCCTCTCTGATAGCTGCA[CT]CCCCTTCCCTAGGGCTGAACATGCTTCAGAGTGGGCTGCACAAGCAGCACATGAAGGACC
108615 I A CTGAGCAGGCAGGATCGGGGGTCTT
108615 P G A ATGACGTGGCAGACCGAGGGGAAGGAGGY
108615 P A A CGGCCCAGGAGAGGGGAAGGAGGTY
108615 T G A TTCCACCTCCTTCCCCTCCAGACCCCCGATCCTGCCTGCTCAGGC
108615 T A A TTCCACCTCCTTCCCCTCTAGACCCCCGATCCTGCCTGCTCAGGC
108615 IS [GA] AGGCCATGGTCATGGTCAGCGTGGAGAGGATGAAGCCTGAGCAGGCAGGATCGGGGGTCT[GA]GAGGGGAAGGAGGTGGAAGTTGAGATCACAGACCTGTGGCCAGGTGGCCTGGGAAGGGTT
108619 I S ACATTTGATTACAGAATTCTCTTGGTAGTATTTTGAGATGGCAAGA
108619 P G S ATGACGTGGCAGACCGTTTTATATGTTTGTTTTGTGTGY
108619 P A S CGCGCCGAGGTGTTTTATATGTTTGTTTGTGTGY
108619 T G S CCCACACACAAAACAAACATATAAAACGCTTGCCATCTCAAAATACTACCAAGAGAATTCTGTAATCAAATGTTA
108619 T A S CCCACACACAAAACAAACATATAAAACACTTGCCATCTCAAAATACTACCAAGAGAATTCTGTAATCAAATGTTA
108619 IS [GA] TATGATTTTGCTATCAAATCTTTTAATAAAATTCCCACACACAAAACAAACATATAAAAC[GA]CTTGCCATCTCAAAATACTACCAAGAGAATTCTGTAATCAAATGTTAAAATCTCGCAATC
108629 I A CCTTTTAACTGATCCAAATACACACAATGTGTCTTTAAAGCAGTCAAGGT
108629 P G A ATGACGTGGCAGACGTGGTTTTACTAAATTTTGCTTTTY
108629 P A A CGCGCCGAGGATGGTTTTACTAAATTTTGCTTTTCY
108629 T G A AATAGAAAAGCAAAATTTAGTAAAACCACCCTTGACTGCTTTAAAGACACATTGGTGTATTTGGATCAGTTAAAAGGAA
108629 T A A AATAGAAAAGCAAAATTTAGTAAAACCATCCTTGACTGCTTTAAAGACACATTGGTGTATTTGGATCAGTTAAAAGGAA
108629 IS [GA] ATTTTACCCATTCCTTTTAACTGATCCAAATACACCAATGTGTCTTTAAAGCAGTCAAGG[GA]TGGTTTTACTAAATTTTGCTTTTCTATTATTCTTACAAATTAATAATGTATATCAGGTAT
108633 I A GCCTGAATGATACAAAAGTGCATCATTGATGAAAAACAAAGCCTACTT
108633 P G A ATGACGTGGCAGACGTTCCTTCAAGGTGTGGY
108633 P A A CGCGCCGAGGATTCCTTCAAGGTGTGGY
108633 T G A ATTCCCACACCTTGAAGGAACAGTAGGCTTTGTTTTTTCATCAATGATGCACTTTTGTATCATTCAGGCTG
108633 T A A ATTCCCACACCTTGAAGGAATAGTAGGCTTTGTTTTTTCATCAATGATGCACTTTTGTATCATTCAGGCTG
108633 IS [GA] ACTGCAGACACAGCCTGAATGATACAAAAGTGCATCATTGATGAAAAACAAAGCCTACT[GA]TTCCTTCAAGGTGTGGGAATAAACAAGCTCTGCTAAAACAAAGTTGACTTTTTATTGCTG
108634 I S GAGCCGGCTTCGTCCGAGTGCCC
108634 P A S CGCGCCGAGGTGAAGGGGCTTATTTGGAY
108634 P C S ATGACGTGGCAGACGGAAGGGGCTTATTTGGY
108634 T A S AAACTCCAAATAAGCCCCTTCAGGCACTCGGACGAAGCCGGCTCCA
108634 T C S AAACTCCAAATAAGCCCCTTCCGGCACTCGGACGAAGCCGGCTCCA
108634 IS [AC] GATGTCGTACTCCATGGAATATGGTATGTTGTCAATGAAAAACTCCAAATAAGCCCCTTC[AC]GGCACTCGGACGAAGCCGGCTCCAGTCCAGGAGGGAATCCGGTCCTGGATATATTGCCGC LAMB1
108641 I A CTCTCCCAAGAGCTGGAGGCAGGAA
108641 P C A ATGACGTGGCAGACCGCAGCCATGGAAGY
108641 P T A CGCGCCGAGGTGCAGCCATGGAAGTY
108641 T C A TGTTACTTCCATGGCTGCGTCCTGCCTCCAGCCTCTGGGAGAGGG
108641 T T A TGTTACTTCCATGGCTGCATCCTGCCTCCAGCCTCTGGGAGAGGG
108641 IS [CT] AGACATTTGGGAAGCCCTTTTCTCACAAATAGTCCCCCTCCCCAGAGGCTGGAGGCAGGA[CT]GCAGCCATGGAAGTAACAACCTACTGAATCCCTTCTGCTCTCTGTGGTTCTTCAGTGCA
108643 I A CATTGGATGTTGCTCTGGTGCTGAGAGAATACAGGAGC
108643 P T A CCGCCCCAGGTGAATAGGAGGGGTTGGY
108643 P A A ATGACGTGGCAGACAGAATAGGAGGGGTTGGY
108643 T T A TTGCCCAACCCCTCCTATTCACTCCTGTATTCTCTCAGCACCAGAGCAACATCCAATGAG
108643 T A A TTGCCCAACCCCTCCTATTCTCTCCTGTATTCTCTCAGCACCAGAGCAACATCCAATGAG
108643 IS [TA] CTCTGTGAAGGCATTTTTCTTCTCATTGGATGTTGCTCTGGTGCTGAGAGAATACAGGAG[TA]GAATAGGAGGGGTTGGGCAATGGTTCATCACCTCTCTAAACCCAGGAGAATGCATAGGCA
108646 I A ACTTTTTATTTCTTACTGTTGAAAAGCACATACATAATATATTCAGTGCATCAT
108646 P A A CGCGCCGAGGAGTAAACAGAGGGTGCTY
108646 P G A ATGACGTGGCAGACGGTAAACAGAGGGTGCTY
108646 T A A ACAAGCACCCTCTGTTTACTTGATGCACTGAATATATTATGTATGTGCTTTCAACAGTAAGAAATAAAAAGTTT
108646 T G A ACAAGCACCCTCTGTTTACCTGATGCACTGAATATATTATGTATGTGCTTTCAACAGTAAGAAATAAAAAGTTT
108646 IS [AG] TAAAGAAACTTTTTATTTCTTACTGTTGAAAAGCACATACATAATATATTCAGTGCATCA[AG]GTAAACAGAGGGTGCTTTGTTTTTTAAAGGAAGTCTCCTGGAAATACCTTGATTACAAGC
108651 I A CACTCATCCTGGGGGCAAAAGTTAAAGGTTTCTAAAAAGCTAT
108651 P C A ATGACGTGGCAGACCTTAGTGAATGTCTTAGTTAATGGY
108651 P A A CGCGCCGAGGATTAGTGAATGTCTTAGTTAATGGAY
108651 T C A CTTTTCCATTAACTAAGACATTCACTAATTAGCTTTTTAGAAAACCTTTAACTTTTGCCCCCAGGATGAGTGCA
108651 T A A CTTTTCCATTAACTAAGACATTCACTAATTAGCTTTTTAGAAAACCTTTAACTTTTGCCCCCAGGATGAGTGCA
108651 IS [CA] GATTTCAATTCATGCTGCACTCATCCTGGGGGCAAAAGTTAAAGGTTTCTAAAAAGCTA[CA]TTAGTGAATGTCTTAGTTAATGGAAAAGAAAATAAGTCAATCCTTTTTTTTCTAACCTTG
108652 I A CTGTGCATAGCTCCAGCGCCCCCT
108652 P G A ATGACGTGGCAGACGTGTACACACACTGGCY
108652 P A A CGCGCCCGAGGATGTACACACACTGGCAY
108652 T G A TTCCTGCCAGTGTGTGTACACGGGGGCGCTGGAGCTATGCACAGGC
108652 T A A TTCCTGCCACTGTGTGTACATGCGGGGCGCTGGAGCTATGCACAGGC
108652 IS [GA] TGTTCCAAGAGCTTCCACTGTGGGCAGCCACCACGGGCTGTGCATAGCTCCAGCGCCCCC[GA]TGTACACACACTGGCAGGAACCACAGACAGGCGCAGTGGTGGGCACCTCAAGGGTAGTCC
108654 I S TGTCTTTGGAAATGTGAGCCAGAAAGCCCACCT
108654 P T S CGCGCCGAGGAGTGCCCCTCAGTCY
108654 P C S ATGACGTGGCAGACGGTGCCCCTCAGTCY
108654 T T S CCGTGACTGAGGGGCACTGGTGGGCTTTCTGGCTCACATTTCCAAAGACATG
108654 T C S CCGTGACTGAGGGGCACCGGTGGGCTTTCTGGCTCACATTTCCAAAGACATG
108654 IS [TC] AGGTTTGACCAGAGTGAAACCATTAGCATGTCATTCATAACAACCGTGACTGAGGGGCAC[TC]GGTGGGCTTTCTGGCTCACATTTCCAAAGACATGTTTTCTCCATAATGTTTCATAACTCA
108655 I A GGTAGAACTTGGCCCATGGGGAGAGAGCT
108655 P G A ATGACGTGGCAGAGCCAACAAAGGTGAATGCY
108655 P A A CGCGCCGAGGACCAAGAAAGGTGAATGCY
108655 T G A GTGTGCATTCACCTTTCTTGGCGCTCTCTCCCCATGGGCCAAGTTCTACCAT
108655 T A A GTGTGCATTCACCTTTCTTGGTGCTCTCTCCCCATGGGCCAAGTTCTACCAT
108655 IS [GA] ACATGTTTTCTCCATAATGTTTCATAACTCATGGTAGAACTTGGCCCATGGGGAGAGAGC[GA]CCAACAAAGGTGAATGCACACATGAGGAGAGGCAGGACTGAGGTTCAACTGCACTGGAGG
108656 I S GCAAAAGAAAAGCAGCTCGGTGACTCCGTCCC
108656 P T S CGCGCCGAGGACATCGCCACAGTTGAY
108656 P A S ATGACGTGGCAGACTCATCGCCACAGTTGAY
108656 T T S TGACTCAACTGTGGCGATGTGGACGGAGTCACCGAGCTGCTTTTCTTTTGCAA
108656 T A S TGACTCAACTGTGGCGATGAGGACGGAGTCACCGAGCTGCTTTTCTTTTGCAA

FIGURE 129G

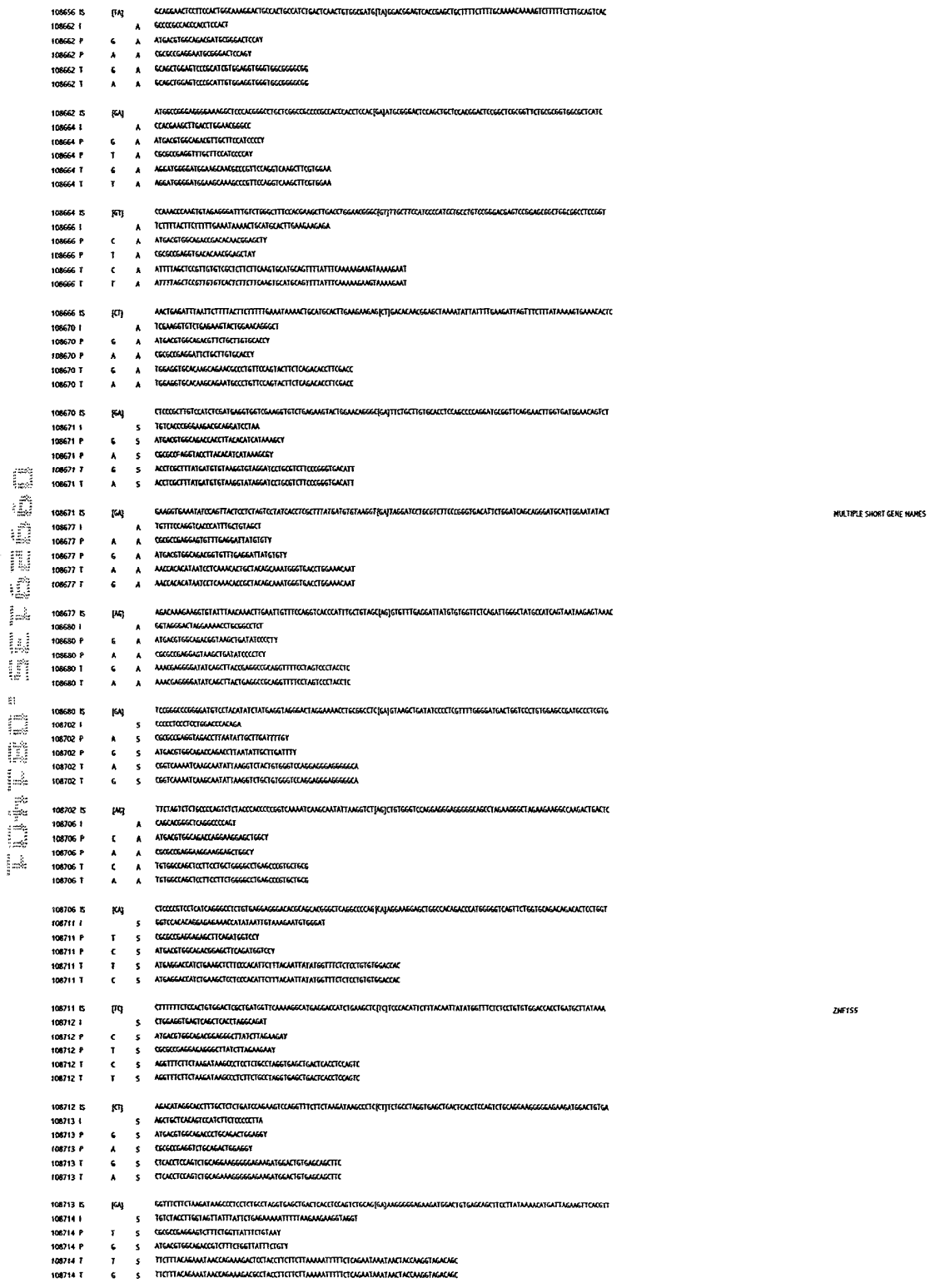


FIGURE 129G

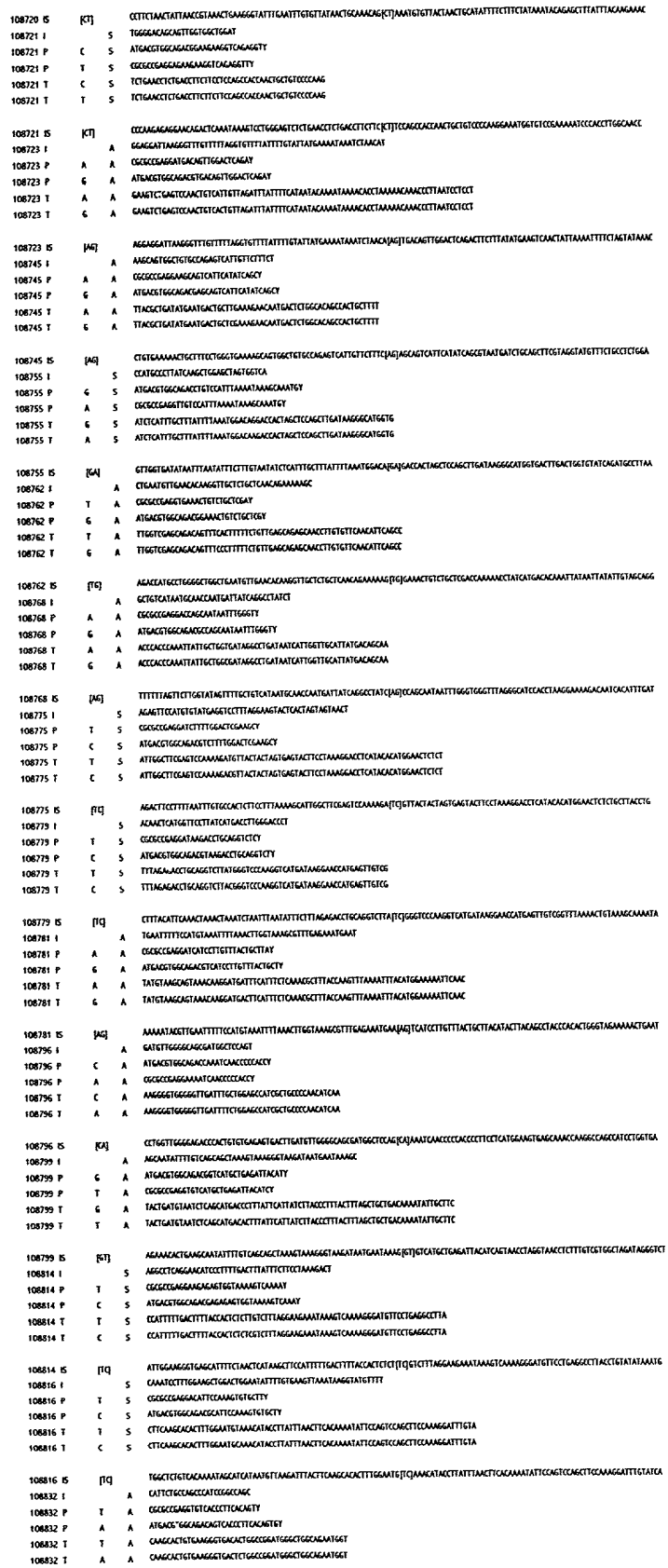
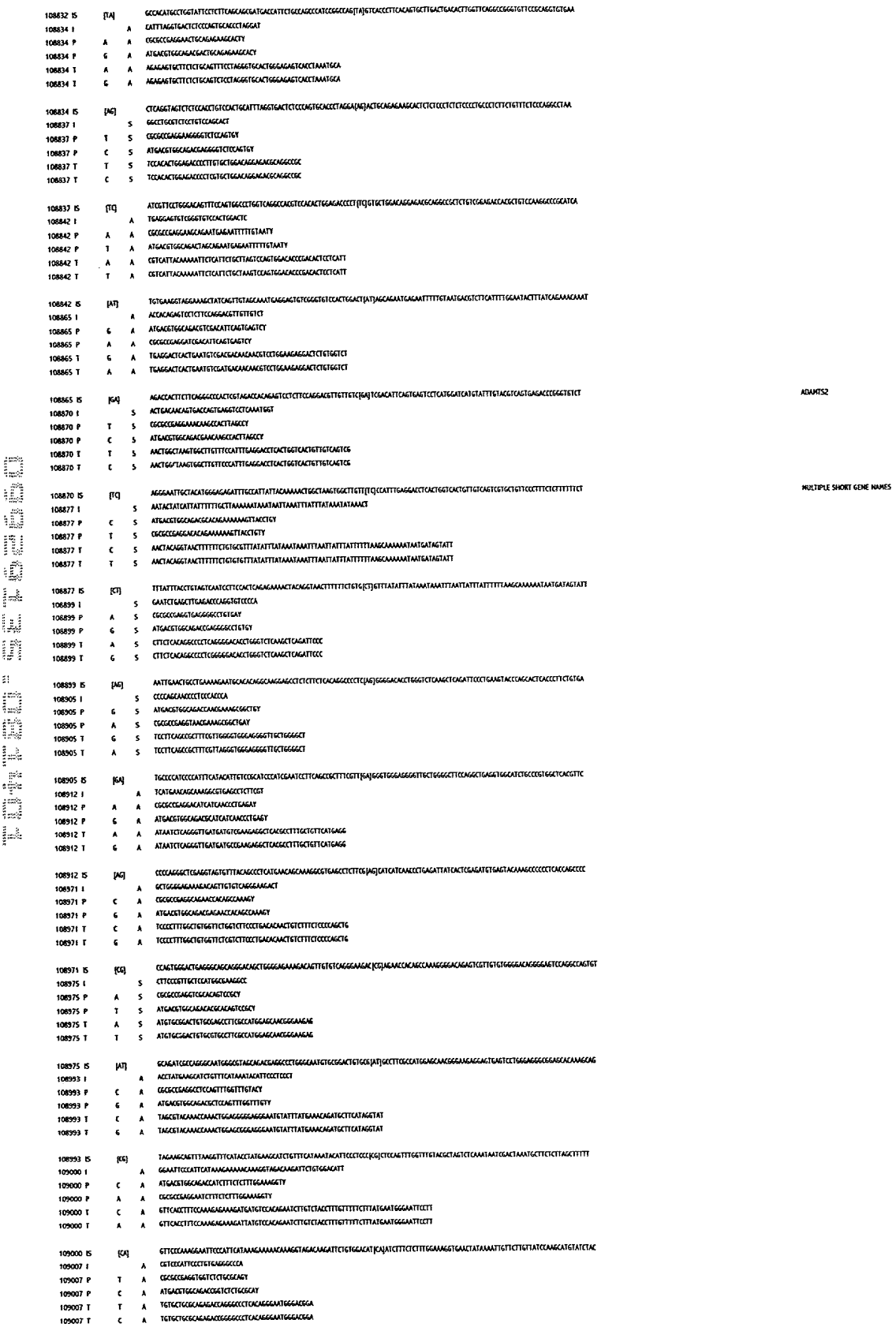
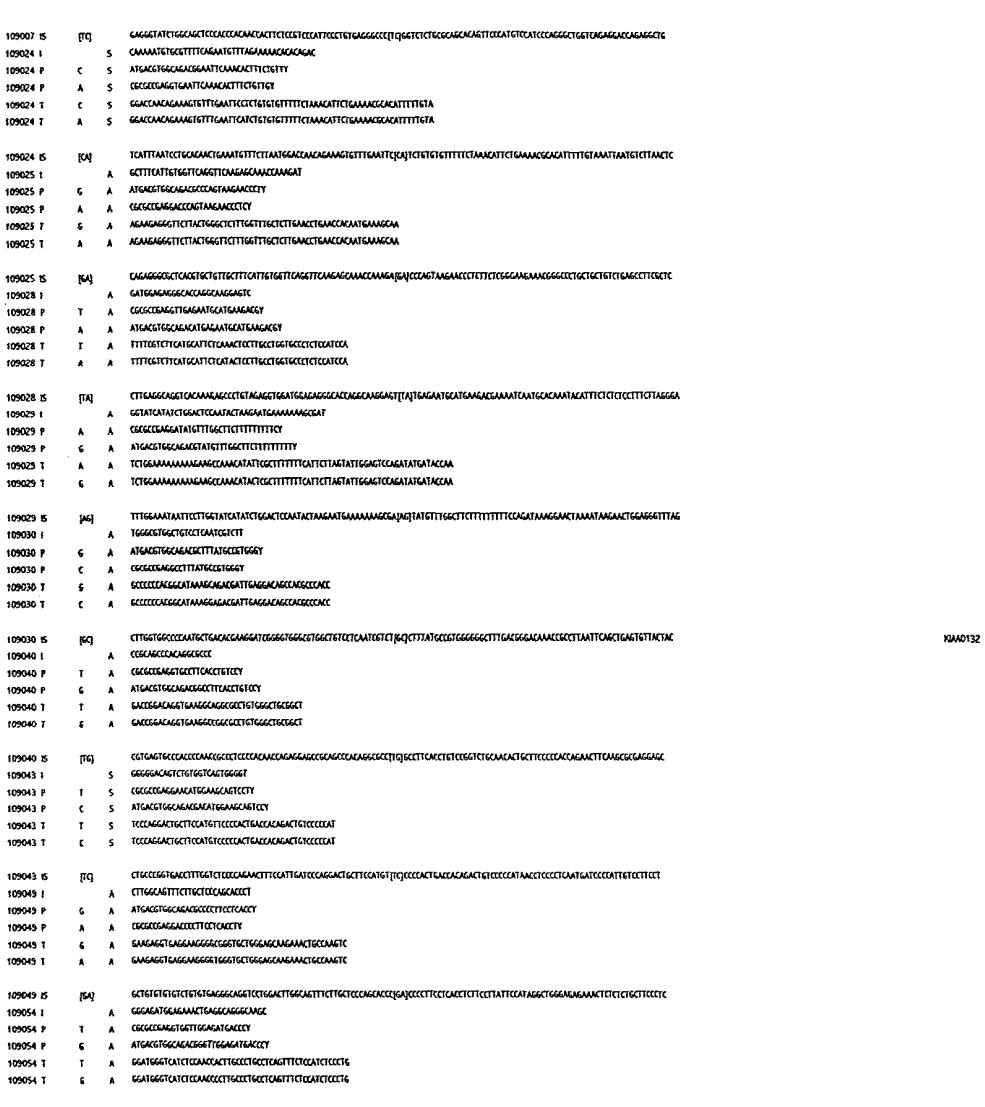


FIGURE 129G





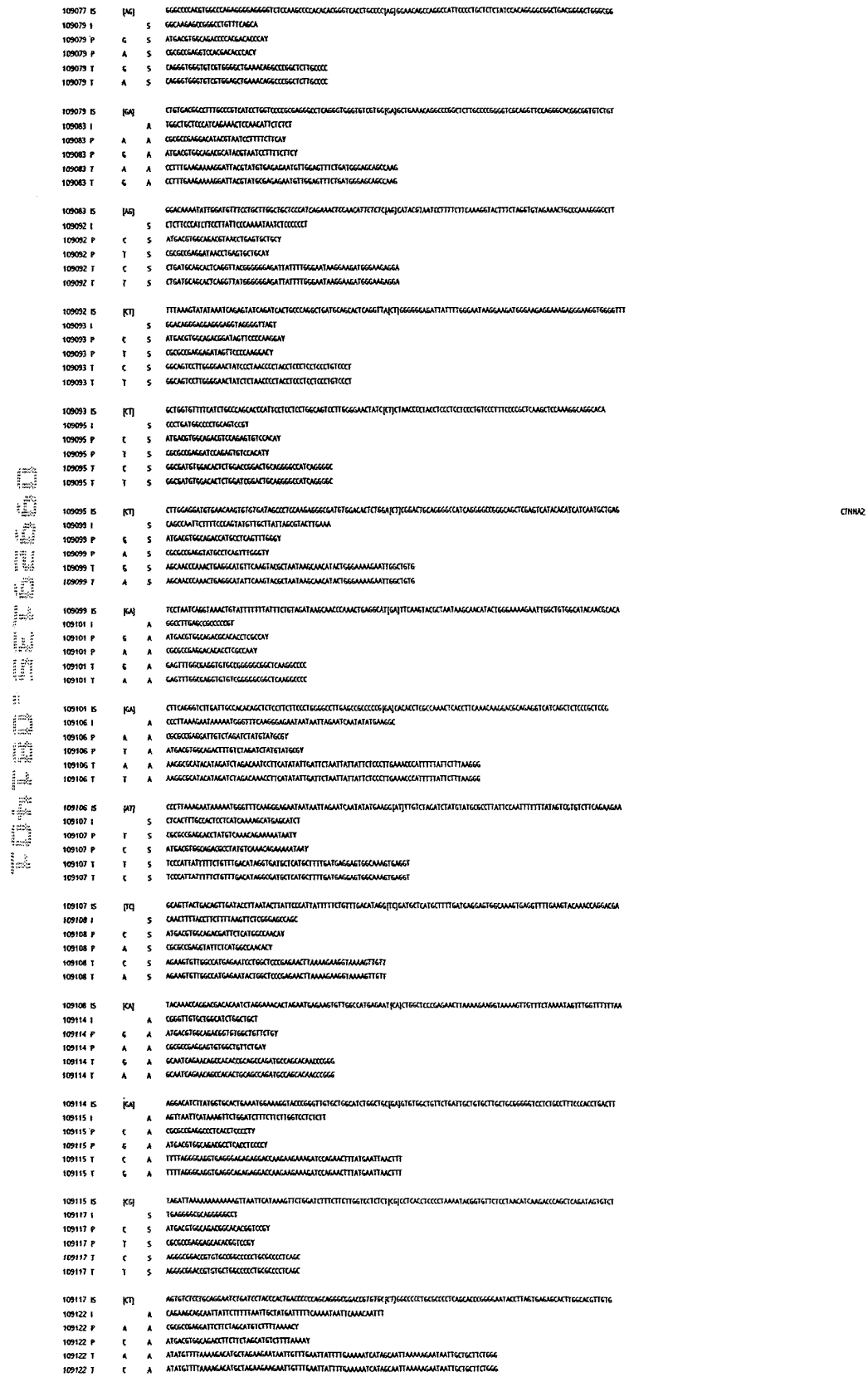
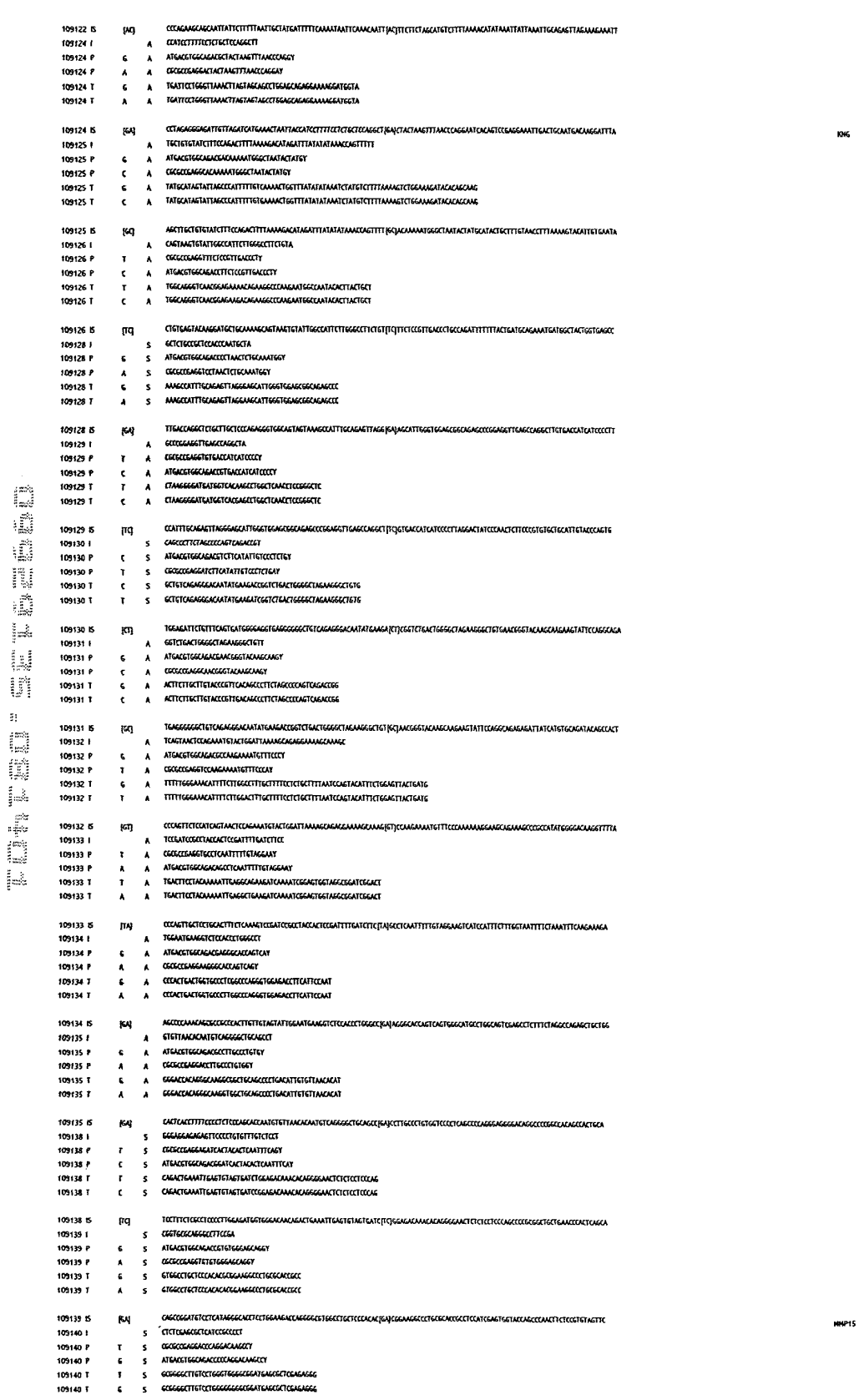


FIGURE 129G


109122 IS [AC]
109124 I A
109124 P G A
109124 P A A
109124 T G A
109124 T A A
109124 IS [GA]
109125 I A
109125 P G A
109125 P C A
109125 T G A
109125 T C A
109125 IS [GC]
109126 I A
109126 P T A
109126 P C A
109126 T T A
109126 T C A
109126 IS [TC]
109128 I S
109128 P G S
109128 P A S
109128 T G S
109128 T A S
109128 IS [GA]
109129 I A
109129 P T A
109129 P C A
109129 T T A
109129 T C A
109129 IS [TC]
109130 I S
109130 P C S
109130 P T S
109130 T C S
109130 T T S
109130 IS [CT]
109131 I A
109131 P G A
109131 P C A
109131 T G A
109131 T C A
109131 IS [GC]
109132 I A
109132 P G A
109132 P T A
109132 T G A
109132 T T A
109132 IS [GT]
109133 I A
109133 P T A
109133 P A A
109133 T T A
109133 T A A
109133 IS [TA]
109134 I A
109134 P G A
109134 P A A
109134 T G A
109134 T A A
109134 IS [GA]
109135 I A
109135 P G A
109135 P A A
109135 T G A
109135 T A A
109135 IS [GA]
109138 I S
109138 P T S
109138 P C S
109138 T T S
109138 T C S
109138 IS [TC]
109139 I S
109139 P G S
109139 P A S
109139 T G S
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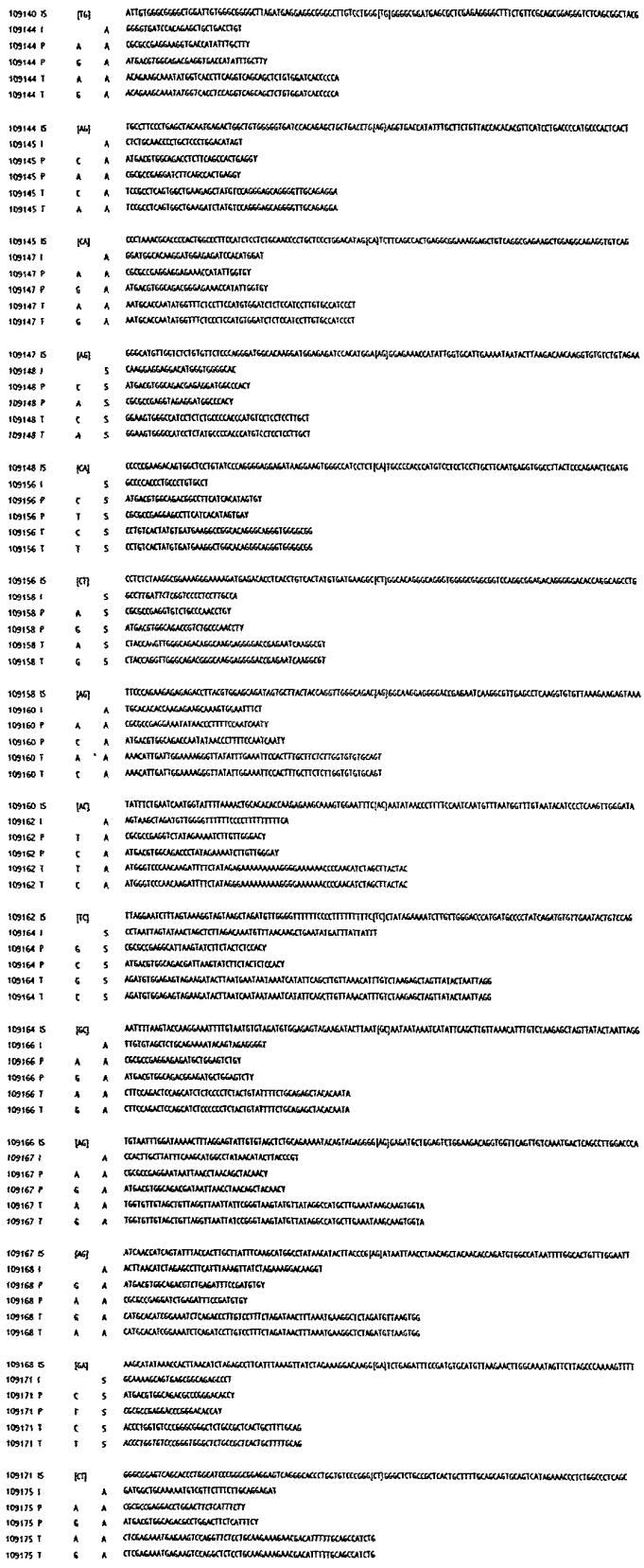


FIGURE 129G

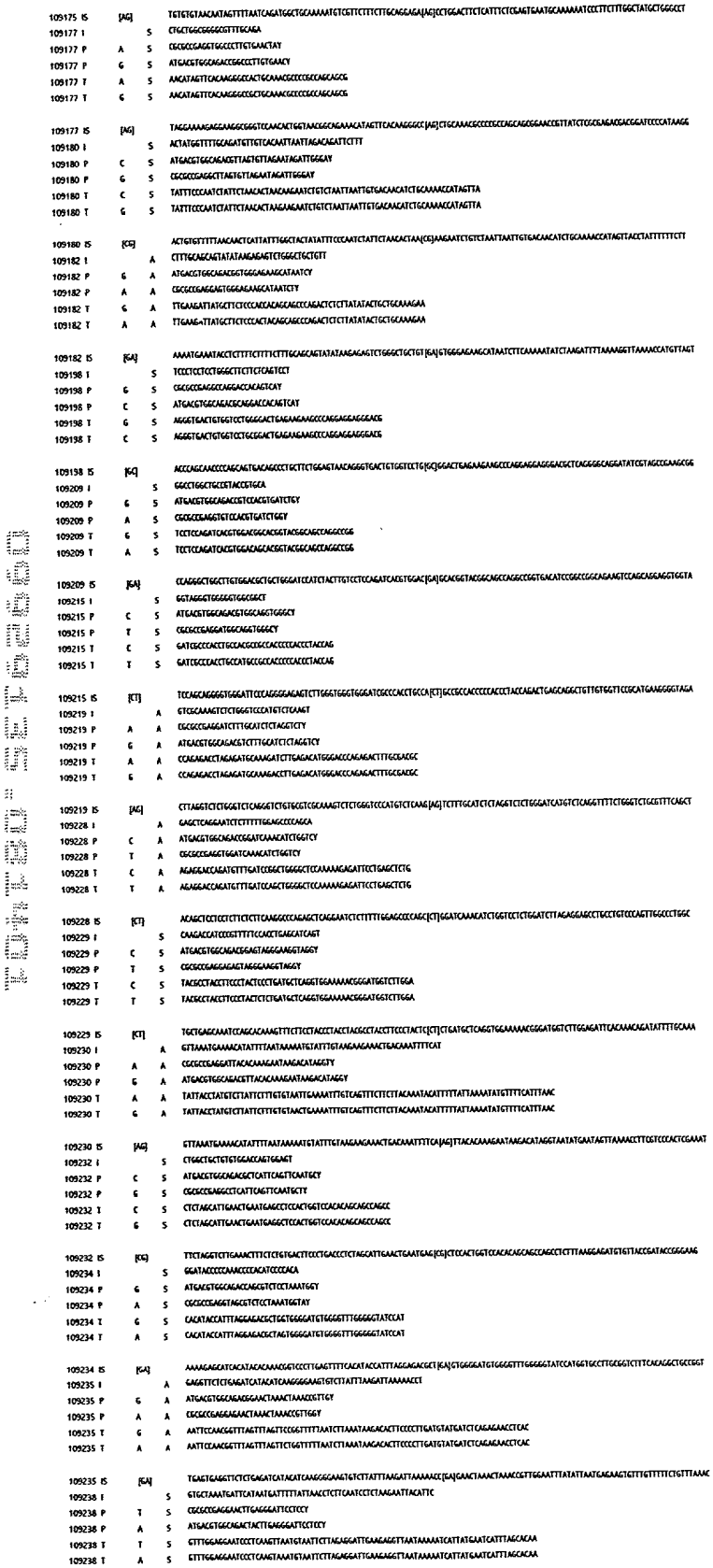
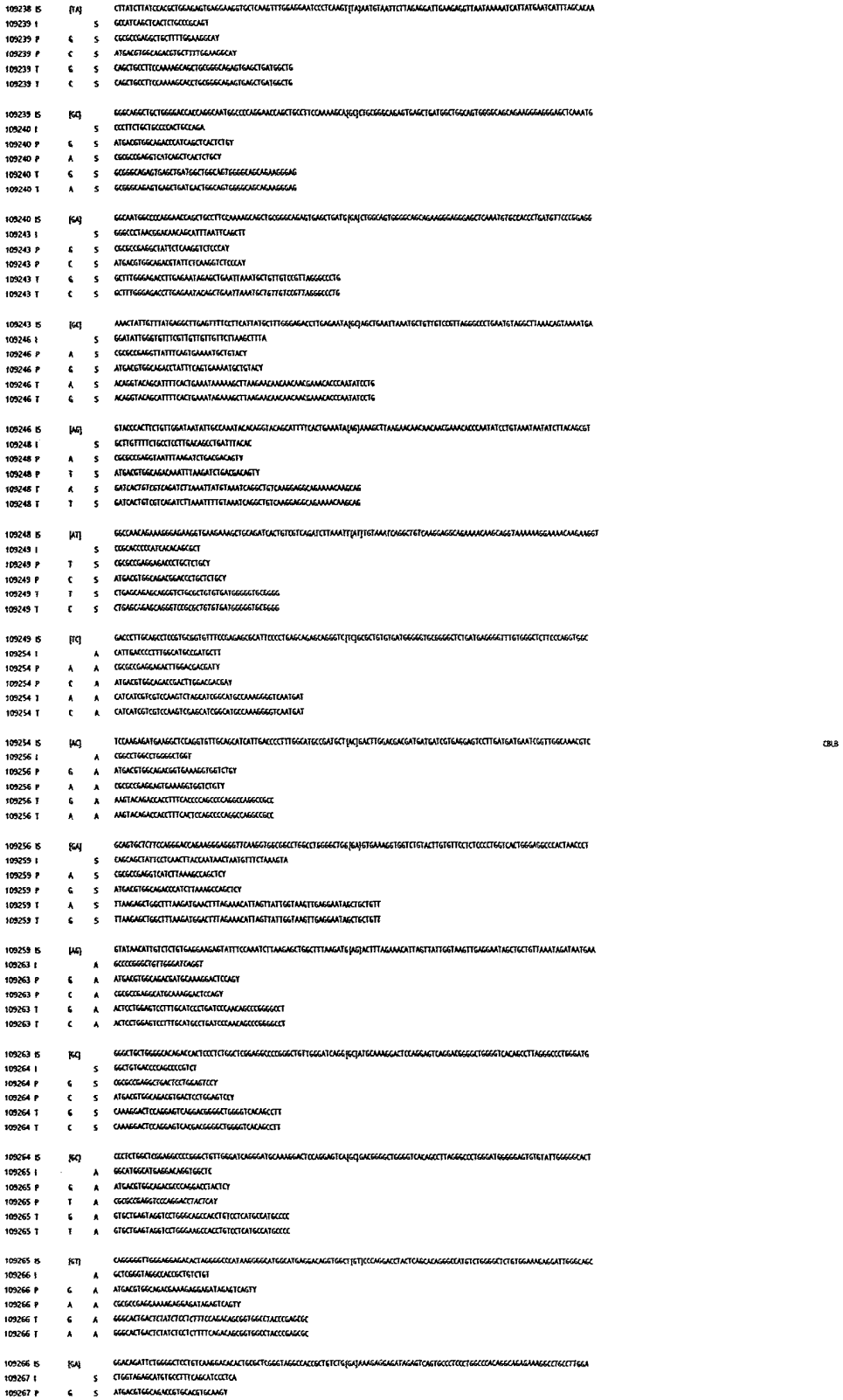

109175 IS [AG] TGTGTGTAACAATAGTTTTAATCAGATGGCTGCAAAAATGTCGTTCTTTCTTGCAGCAGA[AG]CCTGGACTTCTCATTTCTCGAGTGAATGCAAAAAATCCCTTCTTTGGCTATGCTGGGCCT
109177 I S CTGCTGGCGGGGCGTTTGCAGA
109177 P A S CGCGCCGAGGTGGCCCTTGTGAACTAY
109177 P G S ATGACGTGGCAGACCGGCCCTTGTGAACY
109177 T A S AACATAGTTCACAGAGGCCACTGCAAACGCCCCGCCAGCAGCG
109177 T G S AACATAGTTCACAGGGCCGCTGCAAACGCCCCGCCAGCAGCG
109177 IS [AG] TAGGAAAAGAGGAAGGCGGGTCCAACACTGGTAACGGCAGAAACATAGTTCACAAGGGCC[AG]CTGCAAACGCCCCGCCAGCAGCGGAACCGTTATCTCGCGAGACGACGGATCCCCATAAGG
109180 I S ACTATGGTTTTGCAGATGTTGTCACAATTAATTAGACAGATTCTTT
109180 P C S ATGACGTGGCAGACGTTAGTGTTAGAATAGATTGGGAY
109180 P G S CGCGCCGAGGCTTAGTGTTAGAATAGATTGGGAY
109180 T C S TATTTCCCAATCTATTCTAACACTAACAAGAATCTGTCTAATTAATTGTGACAACATCTGCAAAACCATAGTTA
109180 T G S TATTTCCCAATCTATTCTAACACTAAGAAGAATCTGTCTAATTAATTGTGACAACATCTGCAAAACCATAGTTA
109180 IS [CG] ACTGTGTTTTTAACAACTCATTATTTGGCTACTATATTTCCCAATCTATTCTAACACTAA[CG]AAGAATCTGTCTAATTAATTGTGACAACATCTGCAAAACCATAGTTACCTATTTTTTCTT
109182 I A CTTTGCAGCAGTATATAAGAGAGTCTGGGCTGCTGT[GA]GTGGGAGAAGCATAATCTTCAAAAATATCTAAGATTTTAAAAGGTTAAAACCATGTTAGT
109182 P G A ATGACGTGGCAGACGGTGGGAGAAGCATAATCY
109182 P A A CGCGCCGAGGAGTGGGAGAAGCATAATCTY
109182 T G A TTGAAGATTATGCTTCTCCCACCACAGCAGCCCAGACTCTCTTATATACTGCTGCAAAGAA
109182 T A A TTGAAG-TTATGCTTCTCCCACTACAGCAGCCCAGACTCTCTTATATACTGCTGCAAAGAA
109182 IS [GA] AAAATGAAATACCTCTTTTCTTTTCTTTGCAGCAGTATATAAGAGAGTCTGGGCTGCTGT[GA]GTGGGAGAAGCATAATCTTCAAAAATATCTAAGATTTTAAAAGGTTAAAACCATGTTAGT
109198 I S TCCCTCCTCCTGGGCTTCTCTCCAGTCCT
109198 P G S CGCGCCGAGGCCAGGACCACAGTCAY
109198 P C S ATGACGTGGCAGACGCAGGACCACAGTCAY
109198 T G S AGGGTGACTGTGGTCCTGGGGACTGAGAAGAAGCCCAGGAGGAGGGACG
109198 T C S AGGGTGACTGTGGTCCTGCGGACTGAGAAGAAGCCCAGGAGGAGGGACG
109198 IS [GC] ACCCAGCAACCCCAGCAGTGACAGCCCTGCTTCTGGAGTAACAGGGTGACTGTGGTCCTG[GC]GGACTGAGAAGAAGCCCAGGAGGAGGGACGCTCAGGGGCAGGATATCGTAGCCGAAGCGG
109209 I S GGCCTGGCTGCCGTACCGTGCA
109209 P G S ATGACGTGGCAGACCGTCCACGTGATCTGY
109209 P A S CGCGCCGAGGTGTCCACGTGATCTGGY
109209 T G S TCCTCCAGATCACGTGGACAGCACGGTACGGCAGCCAGGCCGG
109209 T A S TCCTCCAGATCACGTGGACAGCACGGTACGGCAGCCAGGCCGG
109209 IS [GA] CCAGGGCTGGCTTGTGGACGCTGCTGGGATCCATCTACTTGTCCTCAGATCACGTGGAC[GA]GCACGGTACGGCAGCCAGGCCGGTGACATCCGGCCGGCAGAAGTCCAGCAGGAGGTGGTA
109215 I S GGTAGGGTGGGGGTGGCGGCT
109215 P C S ATGACGTGGCAGACGTGGCAGGTGGGCY
109215 P T S CGCGCCGAGGATGGCAGGTGGGCY
109215 T C S GATCGCCCACCTGCCACGCCGCCACCCCCACCCTACCAG
109215 T T S GATCGCCCACCTGCCATGCCGCCACCCCCACCCTACCAG
109215 IS [CT] TCCAGCAGGGGTGGGATTCCCAGGGGAGAGTCTTGGGTGGGTGGGATCGCCCACCTGCCA[CT]GCCGCCACCCCCACCCTACCAGACTGAGCAGGCTGTTGTGGTTCCGCATGAAGGGGTAGA
109219 I A GTCGCAAAGTCTCTGGGTCCCATGTCTCAAGT
109219 P A A CGCGCCGAGGATCTTTGCATCTCTAGGTCTY
109219 P G A ATGACGTGGCAGACGTCTTTGCATCTCTAGGTCY
109219 T A A CCAGAGACCTAGAGATGCAAAGATCTTGAGACATGGGACCCAGAGACTTTGCCAACGC
109219 T G A CCAGAGACCTAGAGATGCAAAGACCTTGAGACATGGGACCCAGAGACTTTGCCAACGC
109219 IS [AG] CTTAGGTCTCTGGGTCTCAGGGTCTGTGCGTCGCAAAGTCTCTGGGTCCCATGTCTCAAG[AG]TCTTTGCATCTCTAGGTCTCTGGGATCATGTCTCAGGTTTTCTGGGTCTGCGTTTCAGCT
109228 I A GAGCTCAGGAATCTCTTTTTGGAGCCCCAGCA
109228 P C A ATGACGTGGCGACCGGATCAAACATCTGGTCY
109228 P T A CGCGCCGAGGTGGATCAAACATCTGGTCY
109228 T C A AGAGGACCAGATGTTTGATCCGGCTGGGGCTCCAAAAGAGATTCCTGAGCTCTG
109228 T T A AGAGGACCAGATGTTTGATCCAGCTGGGGCTCCAAAAGAGATTCCTGAGCTCTG
109228 IS [CT] ACAGCTCCTCCTCTTCTCTTCAAGGCCAGAGCTCAGGAATCTCTTTTGGAGCCCAGC[CT]GGATCAAACATCTGGTCCTCTGGATCTTAGAGGAGCCTGCCTGTCCCAGTTGGCCCTGGC
109229 I S CAAGACCATCCCCTTTTCCAACCTGAGCATCAGT
109229 P C S ATGACGTGGCAGACGGAGTAGGGAAGGTAGGY
109229 P T S CGCGCCGAGGAGAGTAGGGAAGGTAGGY
109229 T C S TACGCCTACCTTCCCTACTCCCTGATGCTCAGGTGGAAAAACGGGATGGTCTTGGA
109229 T T S TACGCCTACCTTCCCTACTCTCTGATGCTCAGGTGGAAAAACGGGATGGTCTTGGA
109229 IS [CT] TGCTGAGCAAATCCAGCACAAAGTTTCTCCTACCCTACCTACGCCTACCTTCCCTACTC[CT]CTGATGCTCAGGTGGAAAAACGGGATGGTCTTGGAGATTCACAAACAGATATTTTGCAAA
109230 I A GTTAAATGAAAACATATTTTAATAAAAATGTATTTGTAAGAAGAAACTGACAAATTTTCAT
109230 P A A CGCGCCGAGGATTACACAAAGAATAAGACATAGGTY
109230 P G A ATGACGTGGCAGACTTACACAAAGAATAAGACATAGGY
109230 T A A TATTACCTATGTCTATTCTTTGTGTAATTGAAAATTTGTCAGTTTCTTCTTACAAATACATTTTTATTAAAATATGTTTTCATTTAAC
109230 T G A TATTACCTATGTCTATTCTTTGTGTAACTGAAAATTTGTCAGTTTCTTCTTACAAATACATTTTTATTAAAATATGTTTTCATTTAAC
109230 IS [AG] GTTAAATGAAAACATATTTTAATAAAAATGTATTTGTAAGAAGAAACTGACAAATTTTCA[AG]TTACACAAAGAATAAGACATAGGTAATATGAATAGTTAAAACCTTCGTCCCACTCGAAAT
109232 I S CTGGCTGCTGTGTGGAACCAGTGGAGT
109232 P C S ATGACGTGGCAGACGCTCATTCAGTTCAATGCY
109232 P G S CGCGCCGAGGCTCATTCAGTTCAATGCTY
109232 T C S CTCTAGCATTGAACTGAATGAGCCTCCACTGGTCCACACAGCAGCCAGCC
109232 T G S CTCTAGCATTGAACTGAATGAGGCTCCACTGGTCCACACAGCAGCCAGCC
109232 IS [CG] TTCTAGGTCTTGAAACTTTCTCTGTGACTTCCCTGACCCTCTAGCATTGAACTGAATGAG[CG]CTCCACTGGTCCACACAGCAGCCAGCCTCTTTAAGGAGATGTGTTACCGATACCGGGAAG
109234 I S GGATACCCCAAACCCCACATCCCCACA
109234 P G S ATGACGTGGCAGACCAGCGTCTCCTAAATGGY
109234 P A S CGCGCCGAGGTAGCGTCTCCTAAATGGTAY
109234 T G S CACATACCATTTAGGAGACGCTAGTGGGGATGTGGGGTTTGGGGGTATCCAT
109234 T A S CACATACCATTTAGGAGACGCTAGTGGGGATGTGGGGTTTGGGGGTATCCAT
109234 IS [GA] AAAAGAGCATCACATACACAAAGGGTCCCTTGAGTTTTCACATACCATTTAGGAGACGCT[GA]GTGGGGATGTGGGGTTTGGGGGTATCCATGGTGCCTTGCGGTCTTTCACAGGCTGCCGGT
109235 I A GAGGTTCTCTGAGATCATACATCAAGGGGAAGTGTCTTATTTAAGATTAAAAACCT
109235 P G A ATGACGTGGCAGAGGGAACTAAACTAAACCGTTGY
109235 P A A CGCGCCGAGGAGAACTAAACTAAACCGTTGGY
109235 T G A AATTCCAACGGTTTAGTTTAGTTCCGGTTTTTAATCTTAAATAAGACACTTCCCCTTGATGTATGATCTCAGAGAACCTCAC
109235 T A A AATTCCAACGGTTTAGTTTAGTTCTGGTTTTTAATCTTAAATAAGACACTTCCCCTTGATGTATGATCTCAGAGAACCTCAC
109235 IS [GA] TGAGTGAGGTTCTCTGAGATCATACATCAAGGGGAAGTGTCTTATTTAAGATTAAAAACCC[GA]GAACTAAACTAAACCGTTGGAATTTATATTAATGAGAAGTGTTTGTTTTTCTGTTTAAAC
109238 I S GTGCTAAATGATTCATAATGATTTTTATTAACCTCTTCAATCCTCTAAGAATTACATTC
109238 P T S CGCGCCGAGGAACTTGAGGGATTCCTCCY
109238 P A S ATGACGTGGCAGACTACTTGAGGGATTCCTCCY
109238 T T S GTTTGGAGGAATCCCTCAAGTTAATGTAATTCTTAGAGGATTGAAGAGGTTAATAAAAATCATTATGAATCATTTAGCACAA
109238 T A S GTTTGGAGGAATCCCTCAAGTAAATGTAATTCTTAGAGGATTGAAGAGGTTAATAAAAATCATTATGAATCATTTAGCACAA

FIGURE 129G



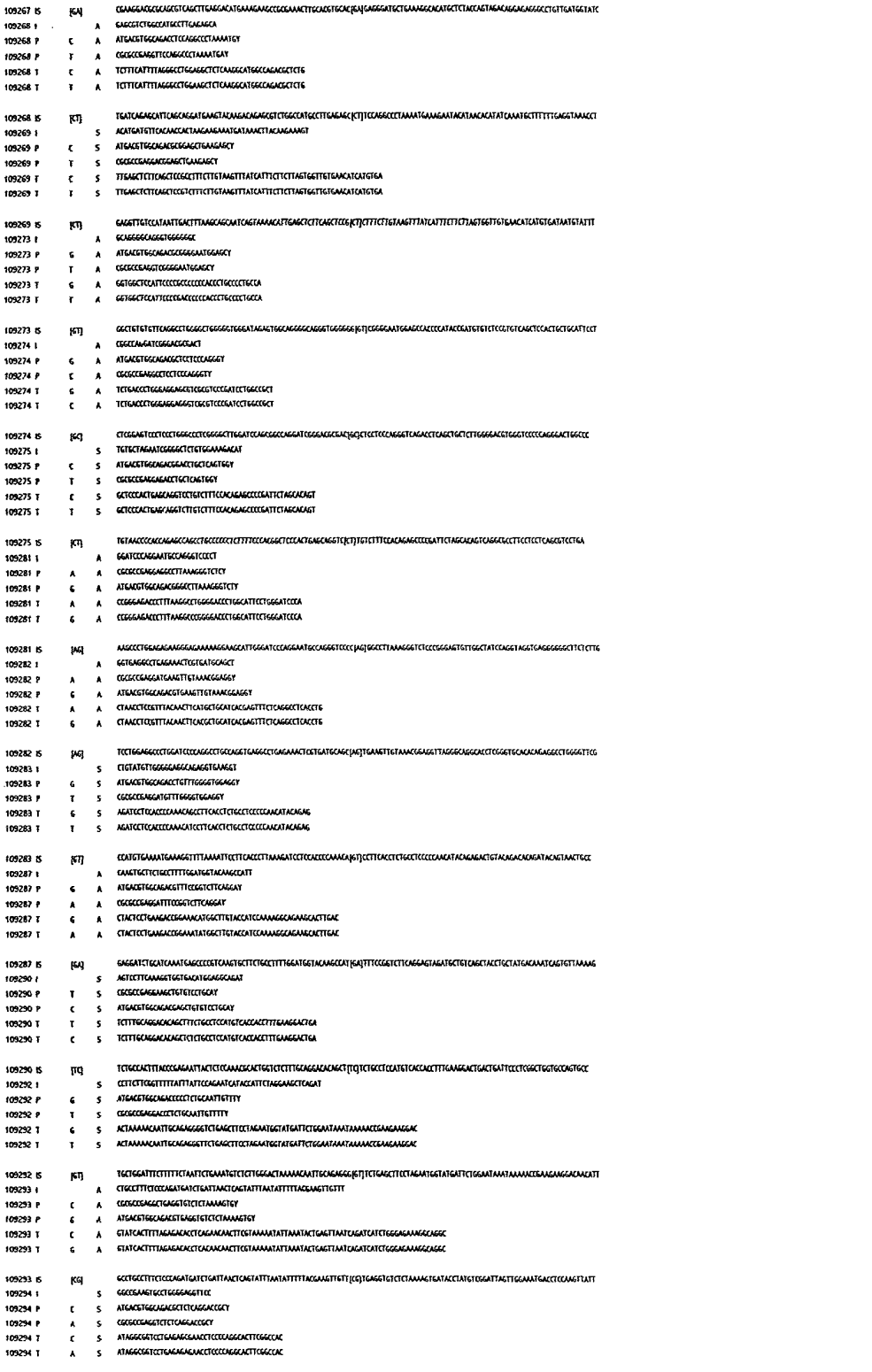


FIGURE 129G

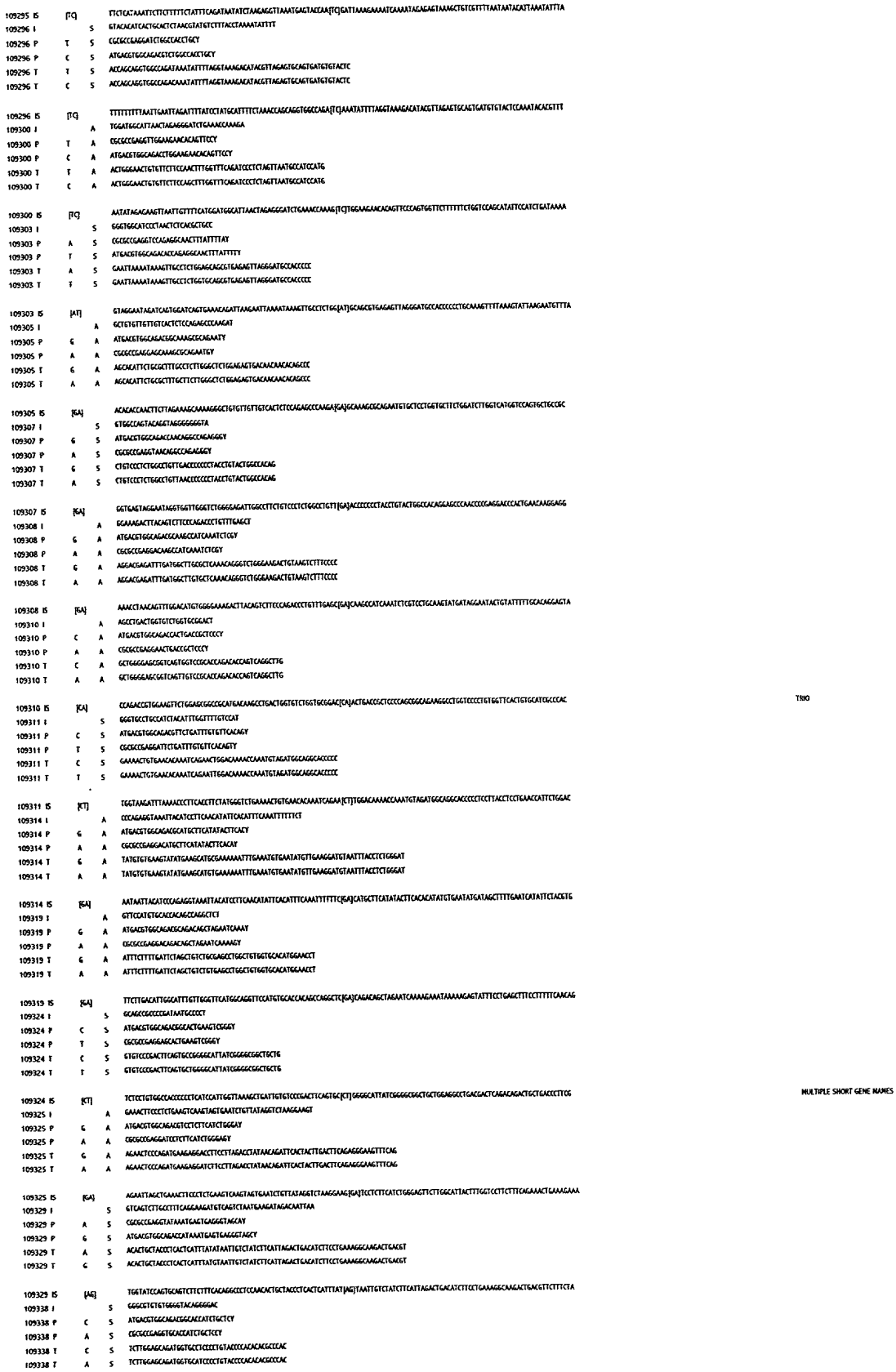
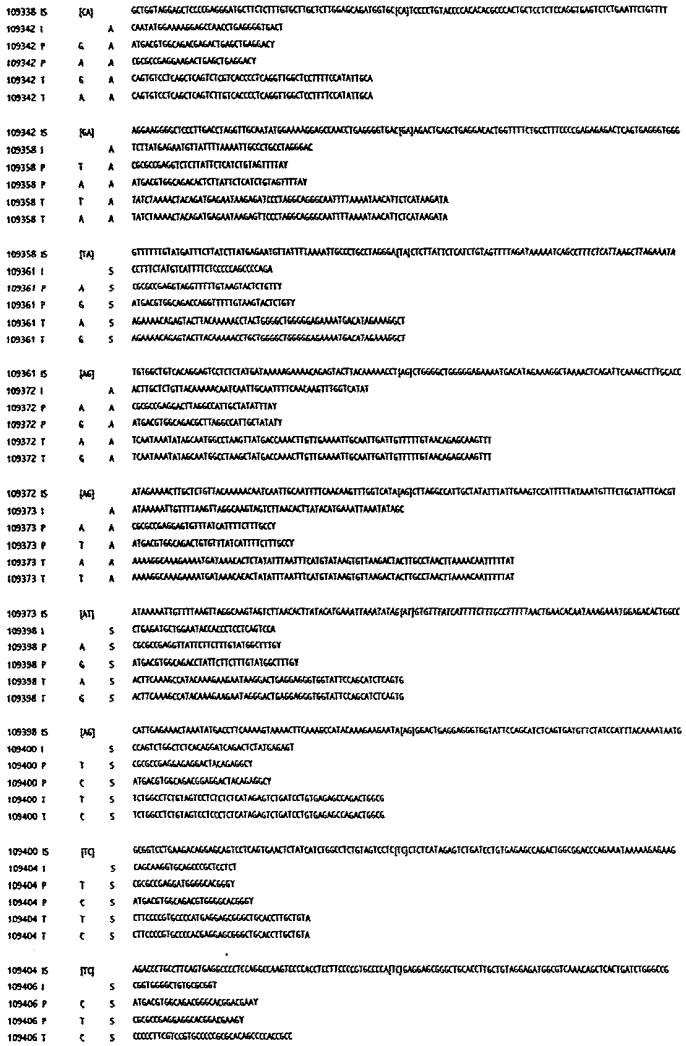
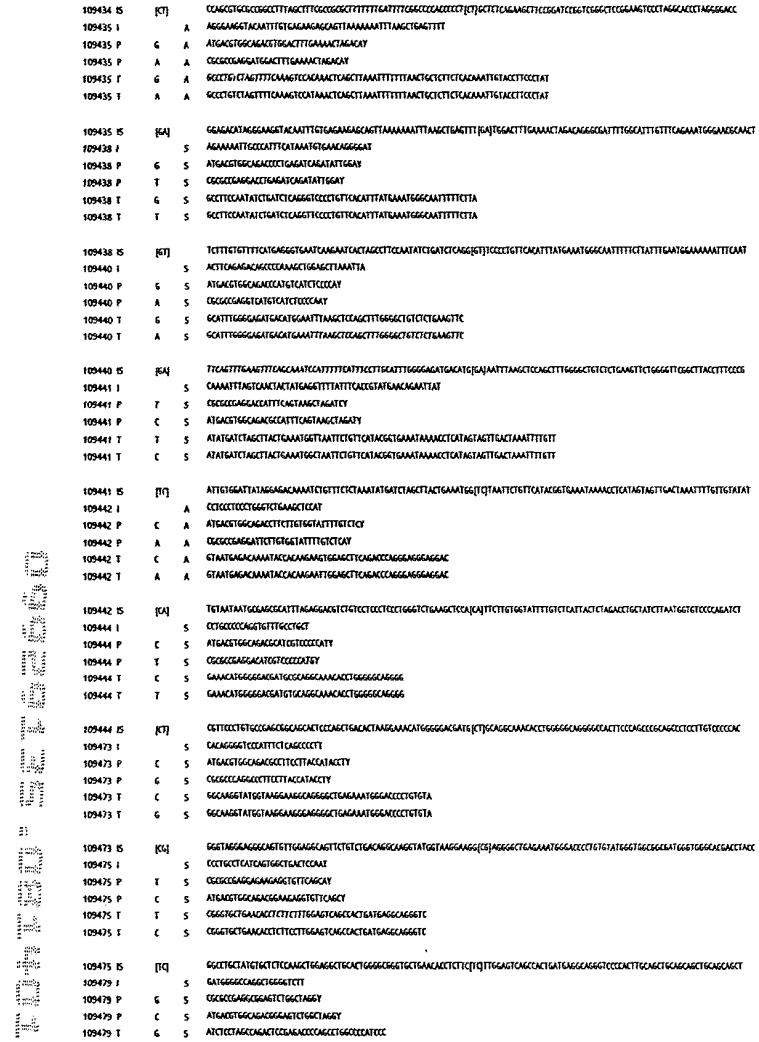


FIGURE 129G



Sequence Listing

FIGURE 129G


109434 IS [CT] CCAGCGTGCGCCGGCCTTTAGCTTTCGCCCGGCTTTTTTTGATTTTGGGCCCCACCCCC?[CT]GCTCTCAGAAGCTCCGGATCCGGCTCGGGCTCCGGAAGTCCCTAGGCACCCTAGGGGACC
109435 I A AGGGAAGGTACAATTTGTCAGAAGAGCAGTTAAAAAAATTTAAGCTGAGTTTT
109435 P G A ATGACGTGGCAGACCTGGACTTTGAAAACTAGACAY
109435 P A A CGCGCCGAGGATGGACTTTGAAAACTAGACAY
109435 T G A GCCCTGYCTAGTTTCAAAGTCCACAAACTCAGCTTAAATTTTTTTAACTGCTCTCTCACAAATTGTACCTTCCCTAT
109435 T A A GCCCTGTCTAGTTTCAAAGTCCATAAACTCAGCTTAAATTTTTTTAACTGCTCTTCTCACAAATTGTACCTTCCCTAT

109435 IS [GA] GGAGACATACGGGAAGGTACAATTTGTGAGAAGAGCAGTTAAAAAAATTTAAGCTGAGTTT[GA]TGGACTTTGAAAACTAGACAGGGGCATTTTGGCATTTGTTTCAGAAATGGGAACGCAACT
109438 I S AGAAAAATTGCCCATTTCATAAATGTGAACAGGGGAT
109438 P G S ATGACGTGGCAGACCCCTGAGATCAGATATTGGAY
109438 P T S CGCGCCGAGGACCTGAGATCAGATATTGGAY
109438 T G S GCCTTCCAATATCTGATCTCAGGGTCCCCTGTTCACATTTATGAAATGGGCAATTTTTCTTA
109438 T T S GCCTTCCAATATCTGATCTCAGGTTCCCCTGTTCACATTTATGAAATGGGCAATTTTTCTTA

109438 IS [GT] TCTTTGTGTTTTCATGAGGGTGAATCAAGAATCACTAGCCCTTCCAATATCTGATCTCAGG[GT]TCCCCTGTTCACATTTATGAAATGGGCAATTTTTCTTATTTGAATGGAAAAAATTTCAAT
109440 I S ACTTCAGAGACAGCCCCAAAGCTGGAGCTTAAATTA
109440 P G S ATGACGTGGCAGACCCATGTCATCTCCCCAY
109440 P A S CGCGCCGAGGTCATGTCATCTCCCCAAY
109440 T G S GCATTTGGGCAGATGACATGGAATTTAAGCTCCAGCTTTGGGGCTGTCTCTGAAGTTC
109440 T A S GCATTTGGGCAGATGACATGAAATTTAAGCTCCAGCTTTGGGGCTGTCTCTGAAGTTC

109440 IS [GA] TTCAGTTTGAAGTTTCAGCAAATCCATTTTTCATTCCTTGCATTTGGGGAGATGACATG[GA]AATTTAAGCTCCAGCTTTGGGGCTGTCTCTGAAGTTCTGGGGTTGGCTTACCTTTCCCG
109441 I S CAAAATTTAGTCAACTACTATGAGGTTTTATTTCACCGTATGAACAGAATTAT
109441 P T S CGCGCCCAGGACACCATTTCAGTAAGCTAGATCY
109441 P C S ATGACGTGGCAGACGCCATTTCAGTAAGCTAGATY
109441 T T S ATATGATCTAGCTTACTGAAATGGTTAATTCTGTTCATACGGTGAAATAAAACCTCATAGTAGTTGACTAAATTTTGTT
109441 T C S ATATGATCTAGCTTACTGAAATGGCTAATTCTGTTCATACGGTGAAATAAAACCTCATAGTAGTTGACTAAATTTTGTT

109441 IS [TC] ATTGTGGATTATAGGAGACAAATCTGTTTCTCTAAATATGATCTAGCTTACTGAAATGG[TC]TAATTCTGTTCATACGGTGAAATAAAACCTCATAGTAGTTGACTAAATTTTGTTGTATAT
109442 I A CCTCCCTCCCTGGGTCTGAAGCTCCAT
109442 P C A ATGACGTGGCAGACCTTCTGTGGTATTTTGTCTCY
109442 P A A CGCGCCGAGGATTCTTGTGGTATTTTGTCTCAY
109442 T C A GTAATGAGACAAAATACCACAGAATGGAGCTTCAGACCCAGGGAGGGAAGGAC
109442 T A A GTAATGAGACAAAATACCACAGAATTGGAGCTTCAGACCCAGGGAGGGAAGGAC

109442 IS [CA] TGTAATAATGCGAGCGCATTTAGAGGACGTCTGTCCTCCCTCCCTGGGTCTGAAGCTCCA[CA]TTCTTGTGGTATTTTGTCTCATTACTCTAGACCTGCTATCTTAATGGTGTCCCCAGATCT
109444 I S CCTGCCCCCAGGTGTTTGCCTGCT
109444 P C S ATGACGTGGCAGACGCATCGTCCCCCATY
109444 P T S CGCGCCGAGGACATCGTCCCCCATGY
109444 T C S GAAACATGGGGGACGATGCCCAGGCAAACACCTGGGGGCAGGGG
109444 T T S GAAACATGGGGGACGATGTGCAGGCAAACACCTGGGGGCAGGGG

109444 IS [CT] CGTTCCCTGTGCCCAGCGGCAGCAETCCCAGCTGACACTAAGGAAACATGGGGGACGATG[CT]GCAGGCAAACACCTGGGGGCAGGGGCCACTTCCCAGCCCGCAGCCCCTTGTCCCCCAC
109473 I S CACAGGGGTCCCATTTCTCAGCCCCTT
109473 P C S ATGACGTGGCAGACGCCTTCCTTACCATACCTY
109473 P G S CGCGCCCAGGCCTTCCTTACCATACCTY
109473 T C S GGCAAGGTATGGTAAGGAAGGCAGGGGCTGAGAAATGGGACCCCTGTGTA
109473 T G S GGCAAGGTATGGTAAGGAAGGCAGGGGCTGAGAAATGGGACCCCTGTGTA

109473 IS [CG] GGGTAGGAGAGGGCAGTGTTGGAGGCAGTTCTGTCTGACAGGCAAGGTATGGTAAGGAAGG[CG]AGGGGCTGAGAAATGGGACCCCTGTGTATGGGTGGCGGCGATGGGTGGGCACGACCTACC
109475 I S CCCTGCCTCATCAGTGGCTGACTCCAAT
109475 P T S CGCGCCGAGGAGAAGAGGTGTTCAGCAY
109475 P C S ATGACGTGGCAGACGGAAGAGGTGTTCAGCY
109475 T T S CGGGTGCTGAACACCTCTTCTTTGGAGTCAGCCACTGATGAGGCAGGGTC
109475 T C S CGGGTGCTGAACACCTCTTCCTTGGAGTCAGCCACTGATGAGGCAGGGTC

109475 IS [TC] GGCCTGCTATGTGCTCTCCAAGCTGGAGGCTGCACTGGGGCGGGTGCTGAACACCTCTTC[TC]TTGGAGTCAGCCACTGATGAGGCAGGGTCCCCACTTGCAGCTGCAGCAGCTGCAGCAGCT
109479 I S GATGGGGCCAGGCTGGGGTCTT
109479 P G S CGCGCCGAGGCGGAGTCTGGCTAGGY
109479 P C S ATGACGTGGCAGACGGGAGTCTGGCTAGGY
109479 T G S ATCTCCTAGCCAGACTCCGAGACCCCAGCCTGGCCCCATCCC
109479 T C S ATCTCCTAGCCAGACTCCCAGACCCCAGCCTGGCCCCATCCC

109479 IS [GC] CTTCCTCAACTTCCCATGCAAGGTGGGCACGACCCCAGTCTCATCTCCTAGCCAGACTCC[GC]AGACCCCAGCCTGGCCCCATCCCACCCCATACCCAGGTACGGAACCAGGTGTACTCGTGG
109483 I S AGTTCATTCTTTGGGAGTAAATGATATTTTGGAGATAAAATTTTTTGAAAATCGT
109483 P T S CGCGCCGAGGAGCAAATGGCCAGTCT
109483 P C S ATGACGTGGCAGACGGCAAATGGCCAGTCY
109483 T T S CTTTGACTGGCCATTTGCTCGATTTTCAAAAAATTTTATCTCCAAAATATCATTTACTCCCAAAGAATGAACTGC
109483 T C S CTTTGACTGGCCATTTGCCCGATTTTCAAAAAATTTTATCTCCAAAATATCATTTACTCCCAAAGAATGAACTGC

109483 IS [TC] ACTAGCTACTAAATCAAAAAGAAAAGAAAAAAAAAACTTACCCCTTTGACTGGCCATTTGC[TC]CGATTTTCAAAAAATTTTATCTCCAAAATATCATTTACTCCCAAAGAATGAACTGCTTCA
109484 I A TGGGGGCCAATGGCGCCATT
109484 P G A ATGACGTGGCAGACGCAGTTATATGTGTGTATTGAAAY
109484 P C A CGCGCCGAGGCCAGTTATATGTGTGTATTGAAACY
109484 T G A CCTAGTTTCAATACACACATATAACTGCATGGCCGCCATTGGCCCCCAAT
109484 T C A CCTAGTTTCAATACACACATATAACTGGATGGCCGCCATTGGCCCCCAAT

109484 IS [GC] ATGGCTGGAAGGCCTCAGACCATTGGGGACCAGCAGGGATTGGGGGCCAATGGCGGCCAT[GC]CAGTTATATGTGTGTATTGAAACTAGGCAGGGGGGAAAAGTGCTATCACGAGACAGGCAG
109485 I A GGTTGGTGCTGAGGGCTGAACCCA
109485 P T A CGCGCCGAGGTATCCCCGCTTTTGCTY
109485 P C A ATGACGTGGCAGACCATCCCCGCTTTTGCY
109485 T T A GGGGAGCAAAAGCGGGGATAGGGTTCAGCCGCTCAGCACCAACCCT
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109485 IS [TC] TCTGGGTCATCAAGGGCACAAAAGGATGCATAATAGGGTTGGTGCTGAGCGGCTGAACCCT[TC]ATCCCCGCTTTTGCTCCCCGCAGACCCCGCAGCAGGCTAAGATGGCTGAGTATTGCCGG
109486 I S AGAGGATTGGGGATGCCATTTCTGGAAGAGAAGGT
109486 P C S ATGACGTGGCAGACGTTTTCCCCTCTAAAGCCY
109486 P T S CGCGCCGAGGATTTTCCCCTCTAAAGCCY
109486 T C S TTTGGGCTTTAGAGGGGAAAACCCTTCTCTTCCAGAAATGGCATCCCCAATCCTCTGT
109486 T T S TTTGGGCTTTAGAGGGGAAAATCCTTCTCTTCCAGAAATGGCATCCCCAATCCTCTGT

109486 IS [CT] GGCCAAGATCCTCTTTAGGGTCTAGAGGGAGAATGTCTATTTGGGCTTTAGAGGGGAAAA[CT]CCTTCCTCTTCCAGAAATGGCATCCCCAATCCTCTGTCCCTCCTGGTGCTTAGCTCTAGAC
109487 I A GCAGCCTTGGCCTGAGGTCTTGGAACAT
109487 P G A ATGACGTGGCAGACGAGTGCTGGCTCCTTY
109487 P A A CGCGCCGAGGAAGTGCTGGCTCCTTY
109487 T G A AGAGAAGGAGCCAGCACTCTGTTCCAAGACCTCAGGCCAAGCCTCCCT
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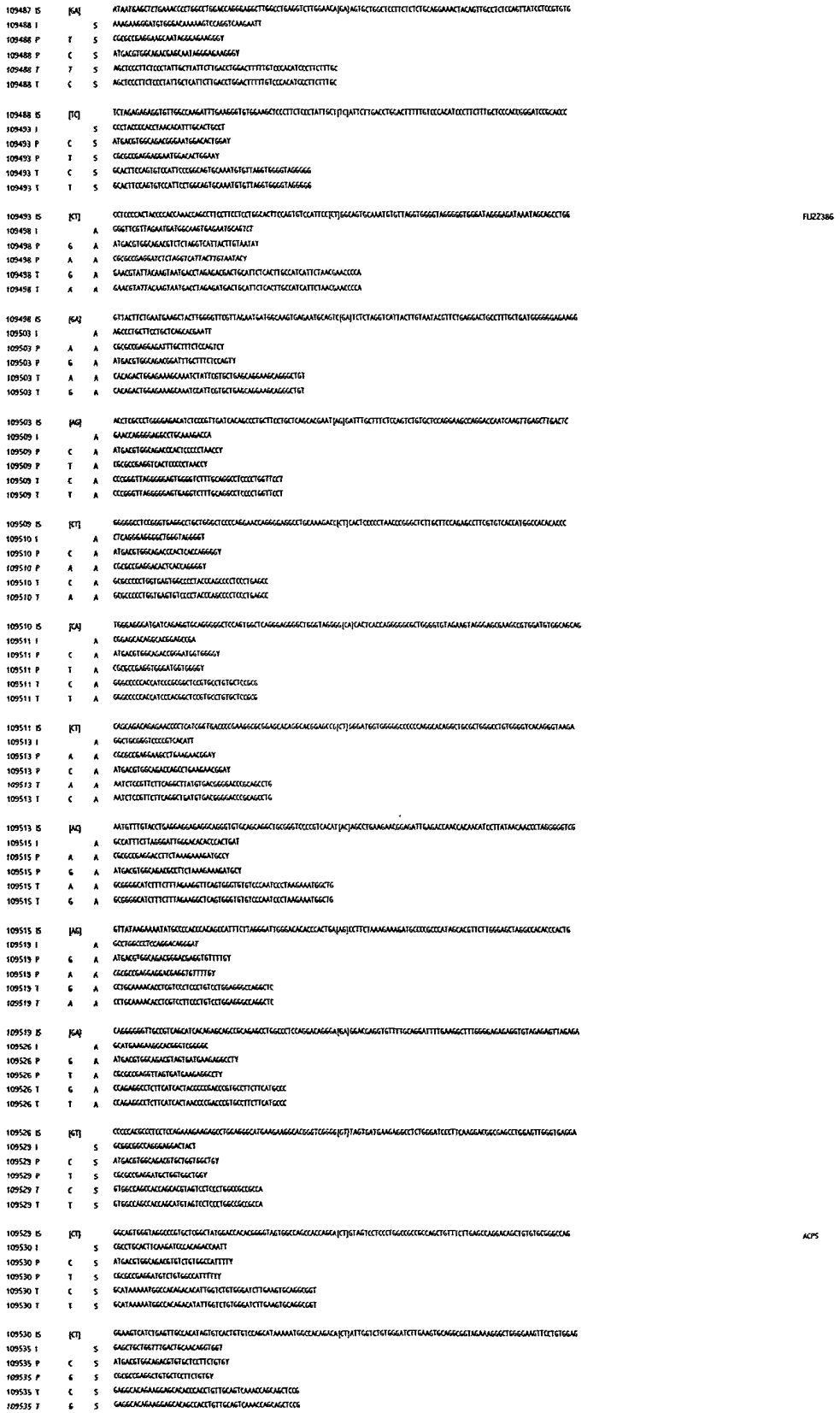


FIGURE 129G

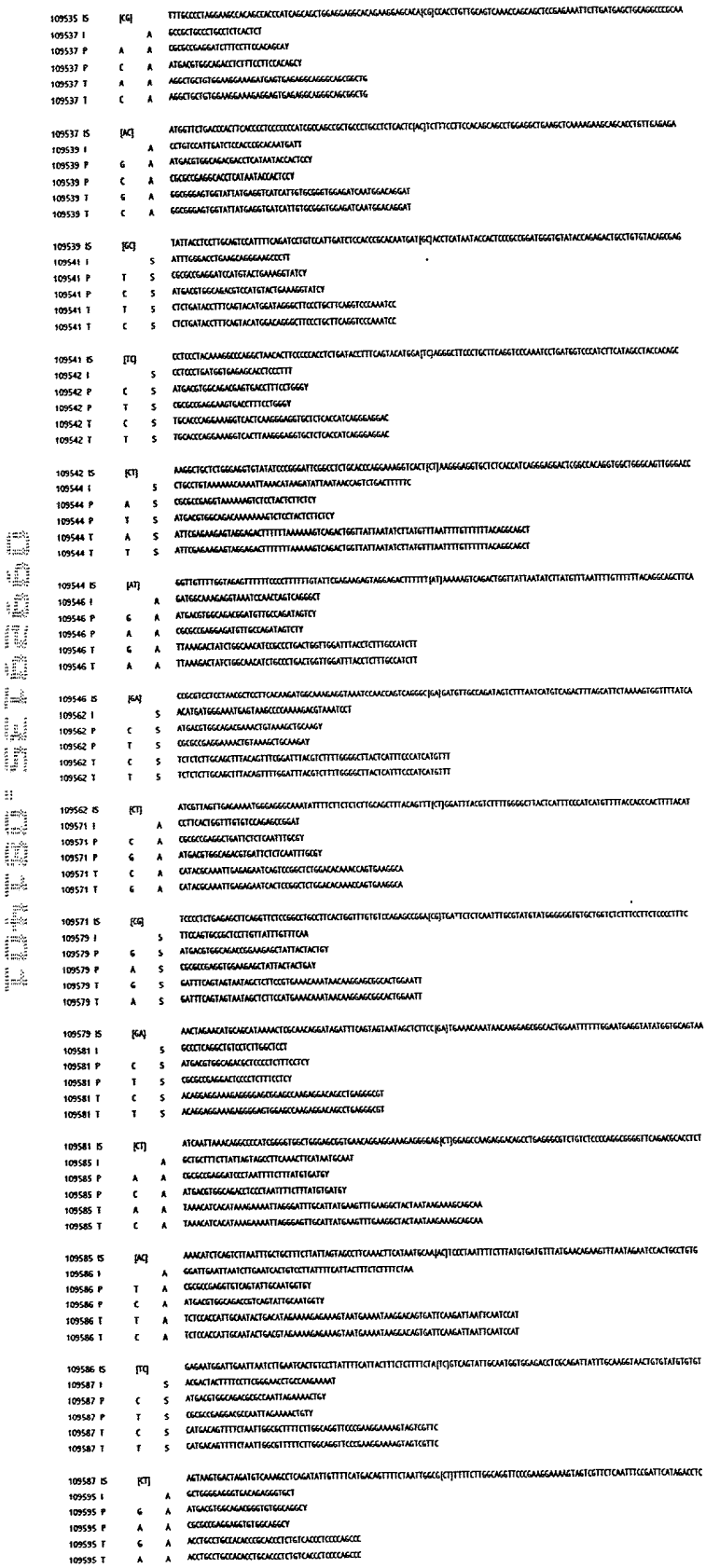
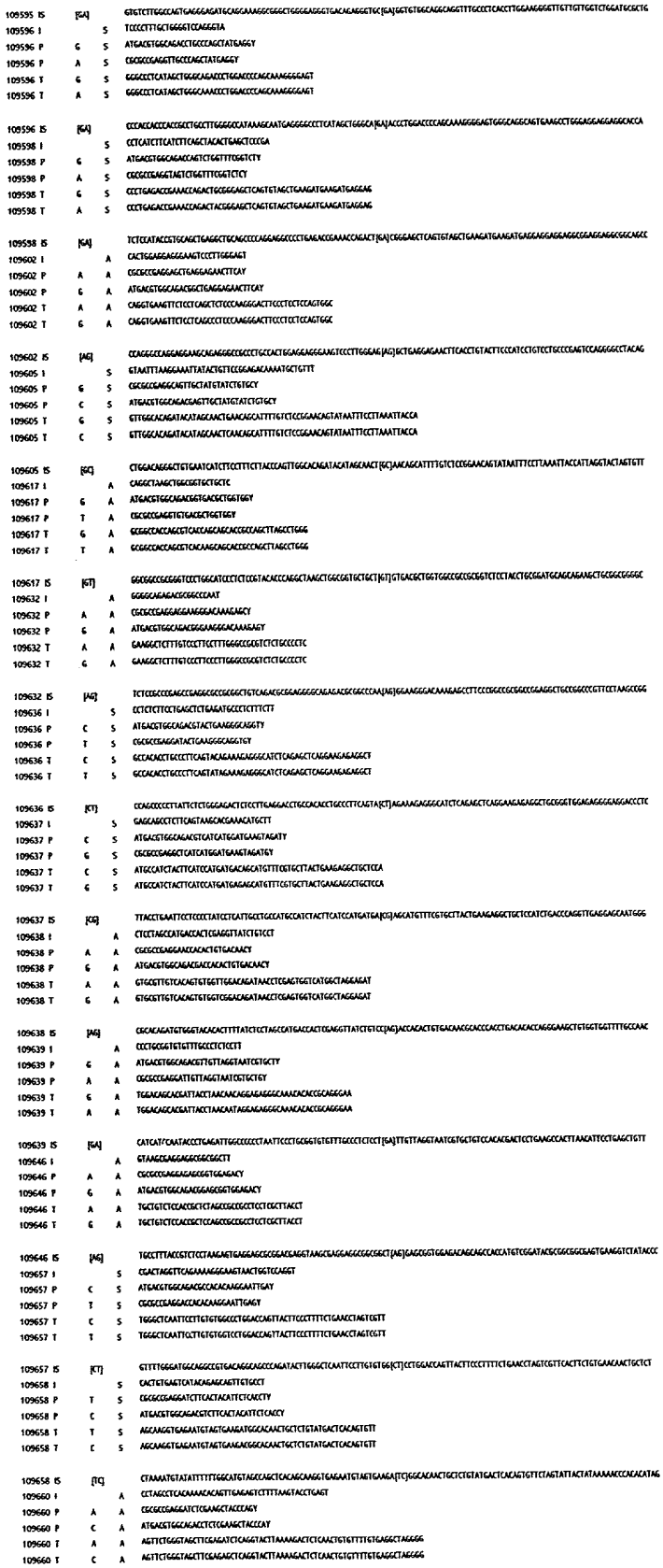
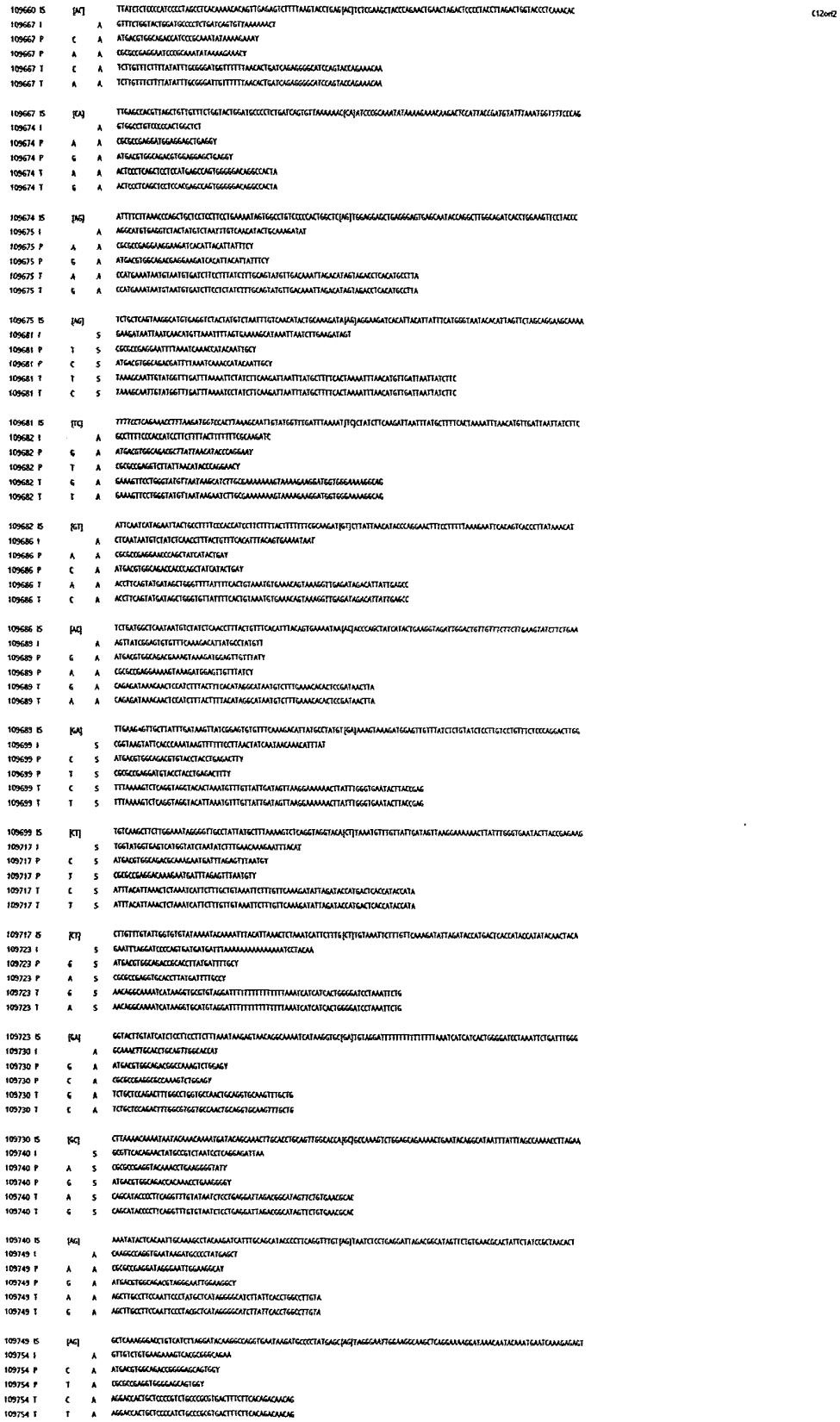

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109537 I A GCCGCTGCCCTGCCTCTCACTCT
109537 P A A CGCGCCCAGGATCTTTCCTTCCACAGCAT
109537 P C A ATGACGTGGCAGACCTCTTCCTTCCACAGCY
109537 T A A AGGCTGCTGTGGAAGGAAAGATGAGTGAGAGGCAGGGCAGCGGCTG
109537 T C A AGGCTGCTGTGGAAGGAAAGAGGAGTGAGAGGCAGGGCAGCGGCTG
109537 IS [AC] ATGGTTCTGACCCACTTCACCCCTCCCCCCATCGCCAGCCGCTGCCCTGCCTCTCACTC[AC]TCTTCCTTCCCACAGCAGCCTGGAGGCTGAAGCTCAAAAGAAGCAGCACCTGTTCAGAGA
109537 I A CCTGTCCATTGATCTCCACCCGCACAATGATT
109539 P G A ATGACGTGGCAGACGACCTCATAATACCACTCCY
109539 P C A CGCGCCCAGGCACCTCATAATACCACTCCY
109539 T G A GGCGGGAGTGGTATTATGAGGTCATCATTGTGCCGGTGGAGATCAATGGACAGGAT
109539 T C A GGCGGGAGTGGTATTATGAGGTGATCATTGTGCCGGTGGAGATCAATGGACAGGAT
109539 IS [GC] TATTACCTCCTTGCAGTCCATTTTCAGATCCTGTCCATTGATCTCCACCCGCACAATGAT[GC]ACCTCATAATACCACTCCCGCCGGATGGGTGTATACCAGAGACTGCCTGTGTACAGCGAG
109541 I S ATTTGGGACCTGAAGCAGGGAAGCCCTT
109541 P T S CGCGCCGAGGATCCATGTACTGAAAGGTATCY
109541 P C S ATGACGTGGCAGACGTCCATGTACTGAAAGGTATCY
109541 T T S CTCTGATACCTTTCAGTACATGGATAGGGCTTCCCTGCTTCAGGTCCCAAATCC
109541 T C S CTCTGATACCTTTCAGTACATGGACAGGGCTTCCCTGCTTCAGGTCCCAAATCC
109543 IS [TC] CCTCCCTACAAAGGCCAGGCTAACACTTCCCCCACCTCTGATACCTTTCAGTACATGGA[TC]AGGGCTTCCCTGCTTCAGGTCCCAAATCCTGATGGTCCCATCTTCATAGCCTACCACAGC
109542 I S CCTCCCTGATGGTGAGAGCACCTCCCTTT
109542 P C S ATGACGTGGCAGACGAGTGACCTTTCCTGGGY
109542 P T S CGCGCCGAGGAAGTGACCTTTCCTGGGY
109542 T C S TGCACCCAGGAAAGGTCACTCAAGGGAGGTGCTCTCACCATCAGGGAGGAC
109542 T T S TGCACCCAGGAAAGGTCACTTAAGGGAGGTGCTCTCACCATCAGGGAGGAC
109542 IS [CT] AAGGCTGCTCTGGGAGGTGTATATCCCCGGGATTCGGCCCTCTGCACCCAGGAAAGGTCACT[CT]AAGGGAGGTGCTCTCACCATCAGGGAGGAACTCGGCCACAGGTGGCTGGGCAGTTGGGACC
109544 I S CTGCCTGTAAAAAACAAAATTAAACATAAGATATTAATAACCAGTCTGACTTTTTC
109544 P A S CGGGCCGAGGTAAAAAAGTCTCCTACTCTTCTCY
109544 P T S ATGACGTGGCAGACAAAAAAGTCTCCTACTCTTCTCY
109544 T A S ATTCGAGAAGAGTAGGAGACTTTTTTAAAAAAGTCAGACTGGTTATTAATATCTTATGTTTAATTTTGTTTTTTACAGGCAGCT
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109546 I A GATGGCAAAGAGGTAAATCCAACTAGTCAGGGCT
109546 P G A ATGACGTGGCAGACGGATGTTGCCAGATAGTCY
109546 P A A CGGCCCGAGGAGATGTTGCCAGATAGTCTY
109546 T G A TTAAAGACTATCTGGCAACATCCGCCCTGACTGGTTGGATTTACCTCTTGCCATCTT
109546 T A A TTAAAGACTATCTGGCAACATCTGCCCTGACTGGTTGGATTTACCTCTTGCCATCTT
109546 IS [GA] CCGCGTCCTCCTAACGCTCCTTCACAAGATGGCAAAGAGGTAAATCCAACCAGTCAGGGC[GA]GATGTTGCCAGATAGTCTTTAATCATGTCAGACTTTAGCATTCTAAAAGTGGTTTTATCA
109562 I S ACATGATGGGAAATGAGTAAGCCCCAAAAGAGGTAAATCCT
109562 P C S ATGACCTGGCAGACGAAACTGTAAAGCTGCAAGY
109562 P T S CGCGCCGAGGAAAACTGTAAAGCTGCAAGAT
109562 T C S TCTCTCTTGCAGCTTTACAGTTTCGGATTTACGTCTTTTGGGGCTTACTCATTTCCCATCATGTTT
109562 T T S TCTCTCTTGCAGCTTTACAGTTTCGGATTTACGTCTTTTGGGGCTTACTCATTTCCCATCATGTTT
109562 IS [CT] ATCGTTAGTTGAGAAAATGGGAGGGCAAATATTTCTCTCTCTCTGCAGCTTTACAGTTT[CT]GGATTTACGTCTTTTGGGGCTTACTCATTTCCCATCATGTTTTACCACCCACTTTTACAT
109571 I A CCTTCACTGGTTTGTGTCCAGAGCCGGAT
109571 P C A CGCGCCGAGGCTGATTCTCTCAATTTGCGY
109571 P G A ATGACGTGGCAGACGTGATTCTCTCAATTTGCGY
109571 T C A CATACGCAAATTGAGAGAATCAGTCCGGCTCTGGACACAAACCAGTGAAGGCA
109571 T G A CATACGCAAATTGAGAGAATCACTCCGGCTCTGGACACAAACCAGTGAAGGCA
109571 IS [CG] TCCCCTCTGAGAGCTTCAGGTTCTCCGGCCTGCCTTCACTGGTTTGTGTCCAGAGCCGGA[CG]TGATCTCTCTCAATTTGCGTATGTATGGGGGGTGTGCTGGTCTCTTTCCTTCTCCCCTTTC
109579 I S TTCCAGTGCCGCTCCTTGTTATTTGTTTCAA
109579 P G S ATGACGTGGCAGACCGGAAGAGCTATTACTACTGY
109579 P A S CGCGCCGAGGTGGAAGAGCTATTACTACTGAY
109579 T G S GATTTCAGTAGTAATAGCTCTTCCGTGAAACAATAACAAGGAGCGGCACTGGAATT
109579 T A S GATTTCAGTAGTAATAGCTCTTCCATGAAACAATAACAAGGAGCGGCACTGGAATT
109579 IS [GA] AACTAGAACATGCAGCATAAAACTCGCAACAGGATAGATTTCAGTAGTAATAGCTCTTCC[GA]TGAAACAAATAACAAGGAGCGGCACTGGAATTTTTTGGAATGAGGTATATGGTGCAGTAA
109581 I S GCCCTCAGGCTGTCCTCTTGGCTCCT
109581 P C S ATGACGTGGCAGACGCTCCCCTCTTTCCTCY
109581 P T S CGCGCCCAGGACTCCCCTCTTTCCTCY
109581 T C S ACAGGAGGAAAGAGGGGAGTGGAGCCAAGAGGACAGCCTGAGGGCGT
109581 T T S ACAGGAGGAAAGAGGGGAGTGGAGCCAAGAGGACAGCCTGAGGGCGT
109581 IS [CT] ATCAATTAAACAGCCCCATCGGGGTGGCTGGGAGGGGTGAACAGAGGAAAGAAGAGGGAG[CT]GGAGCCAAGAGGACAGCCTGAGGGCGTCTGTCTCCCCAGGCGGGGTTCAGACGCACCTCT
109585 I A GCTGCTTTCTTATTAGTAGCCTTCAAACTTCATAATGCAAT
109585 P A A CGCGCCGAGGATCCCTAATTTTCTTTATGTGATGY
109585 P C A ATGACGTGGCAGACCTCCCTAATTTTCTTTATGTGATGY
109585 T A A TAAACATCACATAAAGAAAATTAGGGATTTGCATTATGAAGTTTGAAGGCTACTAATAAGAAAGCAGCAA
109585 T C A TAAACATCACATAAAGAAAATTAGGGAGTTGCATTATGAAGTTTGAAGGCTACTAATAAGAAAGCAGCAA
109585 IS [AC] AAACATCTCAGTCTTAATTTGCTGCTTTCTTATTAGTAGCCTTCAAACTTCATAATGCAA[AC]TCCCTAATTTTCTTTATGTGATGTTTATGAACAGAAGTTTAATAGAATCCACTGCCTGTG
109586 I A GGATTGAATTAATCTTGAATCACTGTCCTTATTTTCATTACTTTCTCTTTTCTAA
109586 P T A CGCGCCGAGGTGTCAGTATTGCAATGGTGY
109586 P C A ATGACGTGGCAGACCGTCAGTATTGCAATGGTY
109586 T T A TCTCCACCATTGCAATACTGACATAGAAAAGAGAAAGTAATGAAAATAAGGACAGTCATTCAAGATTAATTCAATCCAT
109586 T C A TCTCCACCATTGCAATACTGACGTAGAAAAGAGAAAGTAATGAAAATAAGGACAGTCATTCAAGATTAATTCAATCCAT
109586 IS [TC] GAGAATGGATTGAATTAATCTTGAATCACTGTCCTTATTTTCATTACTTTCTCTTTTCTA[TC]GTCAGTATTGCAATGGTGGAGACCTCGCAGATTATTTGCAAGGTAACTGTGTATGTGTGT
109587 I S ACGACTACTTTTCCTTCGGGAACCTGCCAAGAAAAT
109587 P C S ATGACGTGGCAGACGCGCCAATTAGAAAACTGY
109587 P T S CGCGCCGAGGACGCCAATTAGAAAACTGTY
109587 T C S CATGACAGTTTTCTAATTGGCGCTTTTCTTGGCAGGTTCCCGAAGGAAAAGTAGTCGTTC
109587 T T S CATGACAGTTTTCTAATTGGCGTTTTTCTTGGCAGGTTCCCGAAGGAAAAGTAGTCGTTC
109587 IS [CT] AGTAAGTGACTAGATGTCAAAGCCTCAGATATTGTTTCATGACAGTTTTCTAATTGGCG[CT]TTTTCTTGGCAGGTTCCCGAAGGAAAAGTAGTCGTTCTCAATTTCCGATTCATAGACCTC
109595 I A GCTGGGGAAGGGTGACAGAGGGTGCT
109595 P G A ATGACGTGGCAGACGGGGTGTGGCAGGCY
109595 P A A CGCGCCGAGGAAGGTGTGGCAGGCY
109595 T G A ACCTGCCTGCCACACCCGCACCCTCTGTCACCCTCCCCAGCCC
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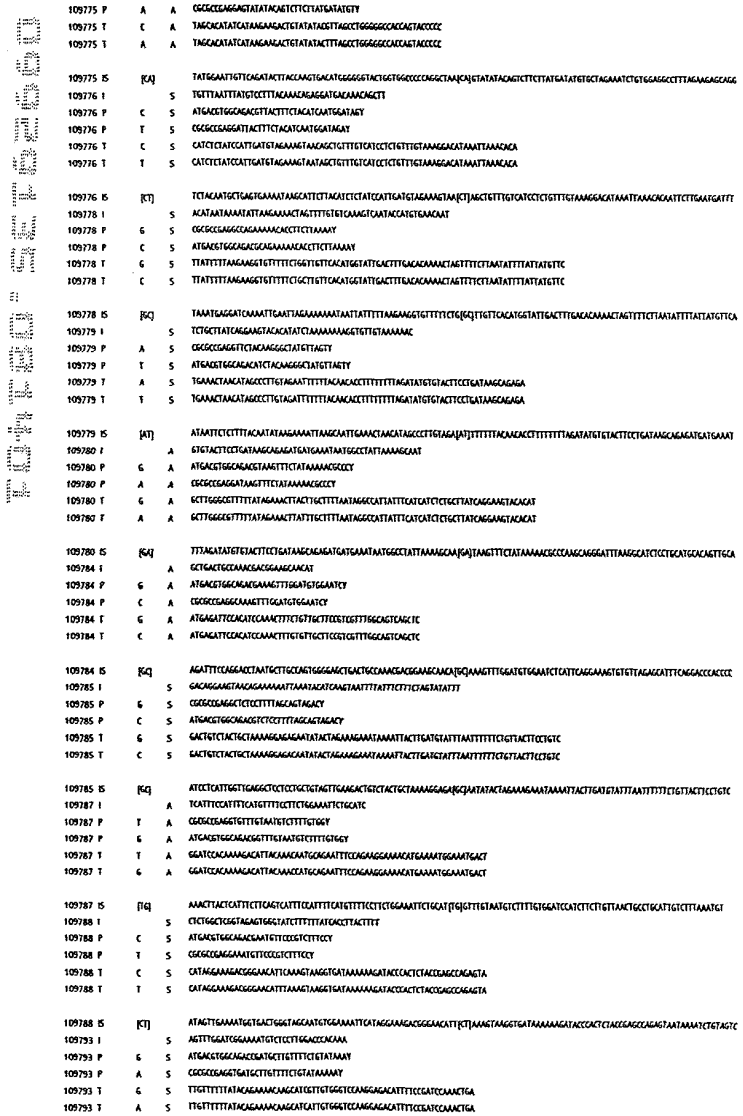
FIGURE 129G

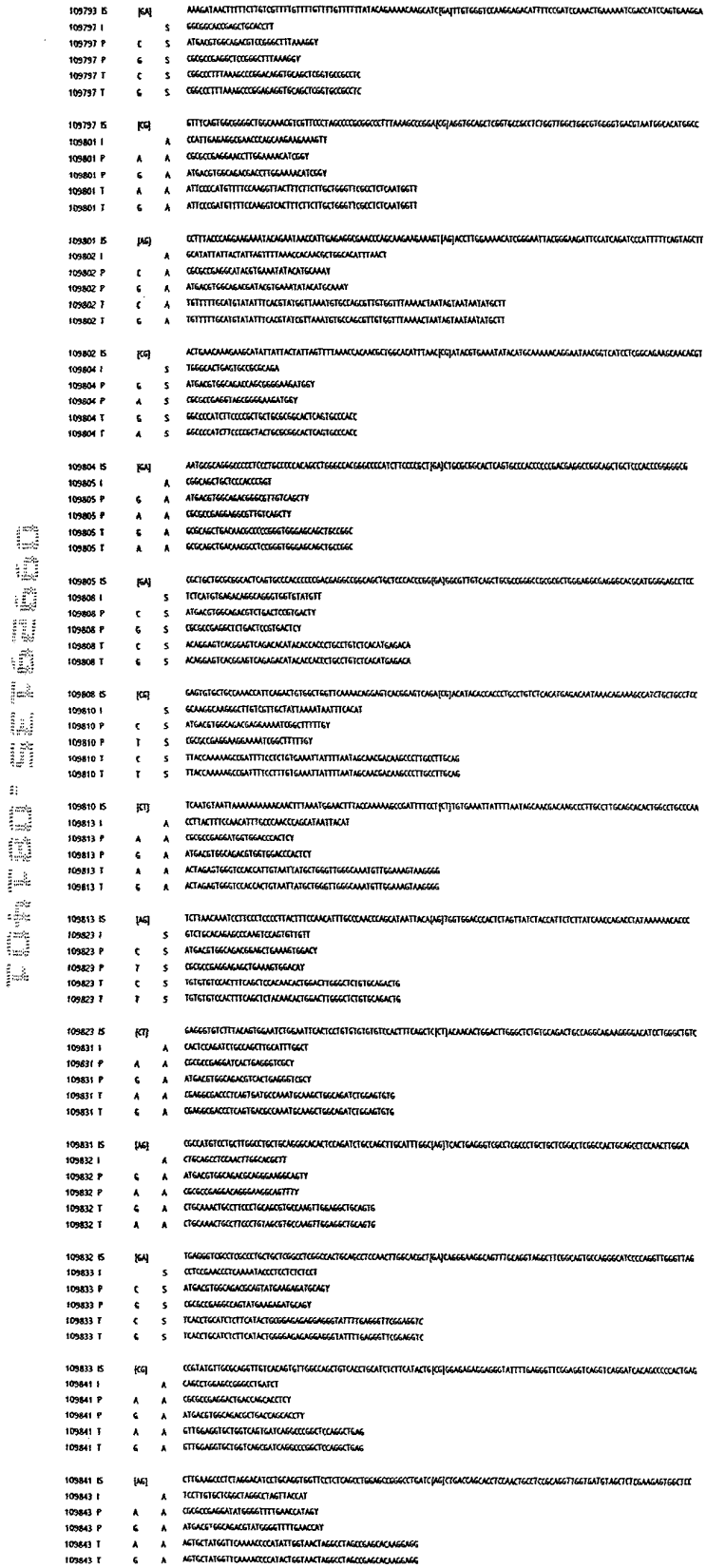


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FIGURE 129G






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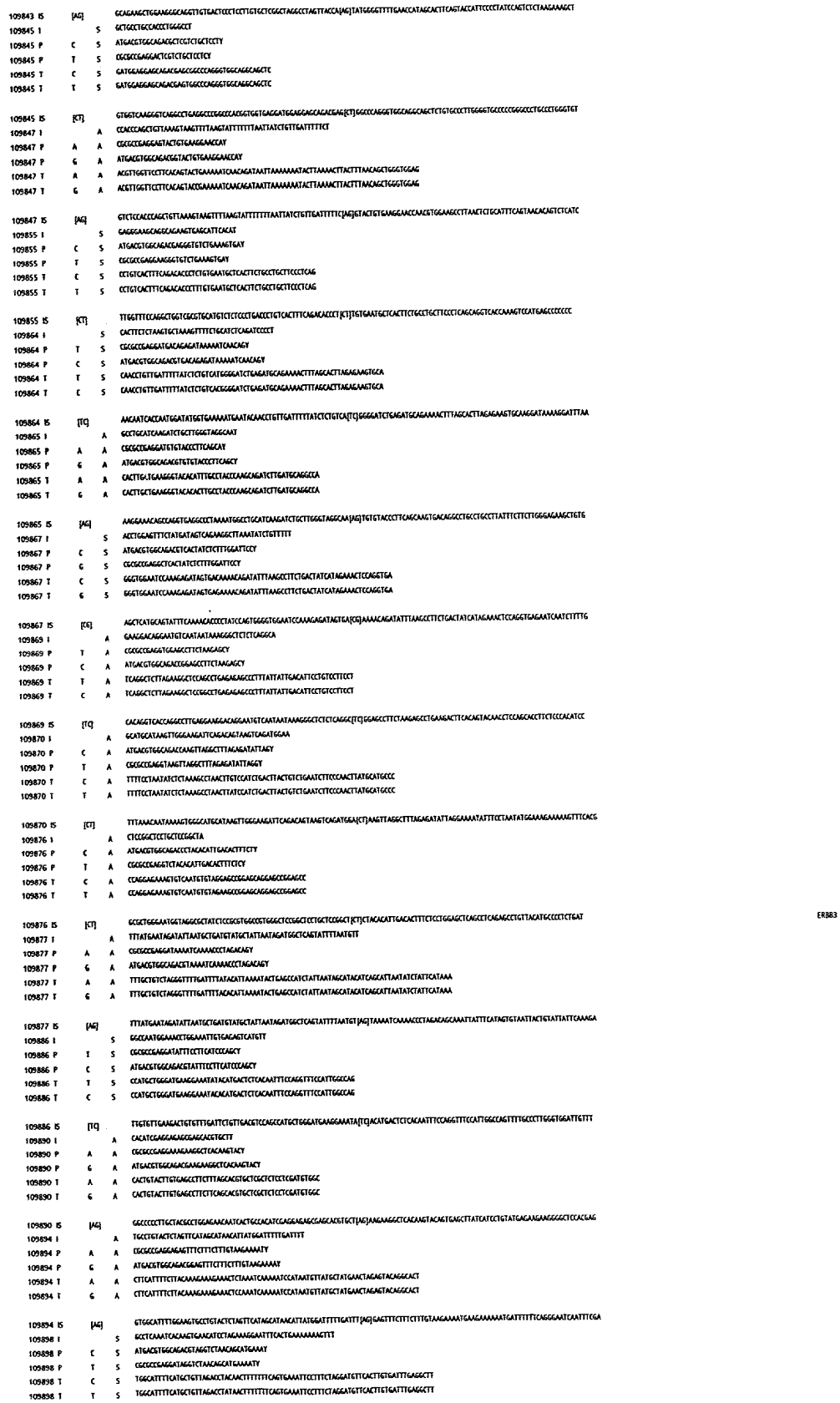

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FIGURE 129G

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109898 IS  [CT]      AAAGCAAGTAGCAAGACTTAACTTTTTACAAGGAAGTGGCATTTTCATGCTGTTAGACCTA[CT]AACTTTTTTTCAGTGAAATTCCTTTCTAGGATGTTCACTTGTGATTTGAGGCTTTAAATA
109902 I         S  CTGAGGGCAGCATGCTGTGTGACGCT
109902 P   C     S  ATGACGTGGCAGACGAGGCGGTCCAGCY
109902 P   T     S  CGCGCCGAGGAAGGCGGTCCAGCY
109902 T   C     S  AGCTGCTGGACCGCCTCGCGGTCACACAGCATGCTGCCCTCAGAC
109902 T   T     S  AGCTGCTGGACCGCCTTGCGTCACACAGCATGCTGCCCTCAGAC

109902 IS  [CT]      CTCCAGAGATGCAGCTTCAGCTGCCCTCGCAGATGCCGCTGAGGAGCTGCTGGACCGCCCT[CT]GCGTCACACAGCATGCTGCCCTCAGACGTGTCCATCCTGTACCACATGAAAACGCTGCTG
109903 I         S  AGGTAACGCCCTGGCGCAGGCA
109903 P   G     S  ATGACGTGGCAGACCCCCTCCAGTGCTGY
109903 P   A     S  CGCGCCCAGGTCCCCTCCAGTGCTGY
109903 T   G     S  GGCTCAGCACTGGAGCGGGGCCTGCGCCAGGGCGTTACCTTC
109903 T   A     S  GGCTCAGCACTGGAGGGAGCCTGCGCCAGGGCGTTACCTTC

109903 IS  [GA]      GAAAGCCTGGCCGTGGGAGGCCTGGTGTCCCCTTCGGCCTTCGGCTCAGCACTGGAGGG[GA]GCCTGCGCCAGGGCGTTACCTTCCAGGAGCCAACGGATCTCCTCAGGGAGGGCGGCGGCC
109905 I         A  CAGGCTCCTGGGGAGTGGCAGTTCAA
109905 P   C     A  ATGACGTGGCAGACATGTCCGTCTTTCACGY
109905 P   T     A  CGCGCCGAGGTATGTCCGTCTTTCACGTY
109905 T   C     A  GGACACGTGAAAGACGGACATGTGAACTGCCACTCCCCAGGAGCCTCCA
109905 T   T     A  GGACACGTGAAAGACGGACATATGAACTGCCACTCCCCAGGAGCCTCCA

109905 IS  [CT]      CAGGAGCCTCATCTTTGGAGAGGCCCTGGCTGTGGAGGCTCCTGGGGAGTGGCAGTTCA[CT]ATGTCCGTCTTTCACGTGTCCTGGCCTGTGGGCTGGAATAATGGAACTGTGGGTGGCACA
109906 I         S  CATCAGGTGTGTAAGAGAGGAATGGCAGGGCT
109906 P   T     S  CGCGCCCAGGAGCAGAACAAAAGTGGCY
109906 P   C     S  ATGACGTGGCAGACGGCAGAACAAAAGTGGCY
109906 T   T     S  CTGTGCCACTTTTGTCTCGCTGCCCTGCCATTCCTCTCTTACACACCTGATGTC
109906 T   C     S  CTGTGCCACTTTTGTCTCGCCGCCCTGCCATTCCTCTCTTACACACCTGATGTC

109906 IS  [TC]      CTGGACAGGTTTCCTGTCTGGCCCTCGCTGATCTCTGAACCTGTGCCACTTTTGTTCTGC[TC]GCCCTGCCATTCCTCTCTTACACACCTGATGTCTCCTGCAGTTGGTAAGTATTTGATGTC
109907 I         A  GTTTGAAGTTGCTCACAGTGGTTCTGGCTT
109907 P   G     A  ATGACGTGGCAGACGTATGAGCAAACTGCAGGY
109907 P   A     A  CGCGCCCAGGATATGAGCAAACTGCAGGY
109907 T   G     A  GCCACCTGCAGTTTGCTCATAGCCAGAACCACTGGTGAGCAACCTCAAACAA
109907 T   A     A  GCCACCTGCAGTTTGCTCATATAGCCAGAACCACTGGTGAGCAACCTCAAACAA

109907 IS  [GA]      TAAGGGTGGGGGCGTGTACCCTGAAGTGTTGTTTGAGGTTGCTCACCAGTGGTTCTGGCT[GA]TATGAGCAAACTGCAGGTGGCTCATCCACAGCCCGTGAAGGGGCTACAAGCTGTAGTGCC
109913 I         S  CAGGCTGTGCTGAGCCTGCTGCAGT
109913 P   C     S  ATGACGTGGCAGACGAGGTGGAGGCTGCY
109913 P   T     S  CGCGCCGAGGAAGGTGGAGGCTGCY
109913 T   C     S  GGAGGCAGCCTCCACCTCCTGCAGCAGGCTCAGCAGACGCCTGCA
109913 T   T     S  GGAGGCAGCCTCCACCTTCTGCAGCAGGCTCAGCAGACGCCTGCA

109913 IS  [CT]      GGCCTGCTGGTCCAGTGCCCACCTGCAGCTCCTCCAGCTGGTGGGAGGCAGCCTCCACCT[CT]CTGCAGCAGGCTCAGCACAGGCTGCATGTCTGCCACCTGCTTCCTCTGTCCCTGTAGATG
109914 I         S  CCAAGTGGATCAATAACGTCTTCCAGTGCGGCA
109914 P   G     S  ATGACGTGGCAGACCAGGTGAGTATAGCCAGCY
109914 P   A     S  CGCGCCCAGGTAGGTGAGTATAGCCAGCY
109914 T   G     S  CACAGCTGGCTATACTCACCTGGCCGCACTGGAAGACGTTATTGATCCACTTGGTG
109914 T   A     S  CACAGCTGGCTATACTCACCTAGCCGCACTGGAAGACGTTATTGATCCACTTGGTG

109914 IS  [GA]      TGGCCAGAGCTGGGGGCGTGGTATGGGTGGGCTGTGGGTCACAGCTGGCTATACTCACCT[GA]GCCGCACTGGAAGACGTTATTGATCCACTTGGTGAAAGTCTTCTCCTGCATCTGCATGTG
109915 I         S  CCCCTCCCTGTCTGGGCCACGA
109915 P   G     S  ATGACGTGGCAGACCCCTGTGGCAGGTY
109915 P   A     S  CGCGCCGAGGTCCTGTGGCAGGTGY
109915 T   G     S  CTCCCACCTGCCACAGGGCGTGGCCCAGACAGGGAGGGGGT
109915 T   A     S  CTCCCACCTGCCACAGGAACGTGGCCCAGACAGGGAGGGGGT

109915 IS  [GA]      TTGAGCCAGCGTGCTGGGGTGAGGCACACAGCGGCATTGTCCTCCCACCTGCCACAGG[GA]CGTGGCCCAGACAGGGAGGGGGTGGTTCAGGAATGCTCCAGGGCCATTGCCAGATGATCT
109917 I         A  GGCCGTACTTTACGACCACACTTTGGAGGAAGTT
109917 P   G     A  ATGACGTGGCAGACGGACCCTCCTCTCCAY
109917 P   A     A  CGCGCCGAGGAGACCCTCCTCTCCAY
109917 T   G     A  GTGCTGGAGAGGAGGGTCCACTTCCTCCAAAGTGTGGTCGTAAAGTACGGCCAG
109917 T   A     A  GTGCTGGAGAGGAGGGTCTACTTCCTCCAAAGTGTGGTCGTAAAGTACGGCCAG

109917 IS  [GA]      ACTGCCTCCCCAATGCCACCACTGGGCTGGCCGTACTTTACGACCACACTTTGGAGGAAGT[GA]GACCCTCCTCTCCAGCACCAGGGTCTTCTTCTGGGCCAGCTGCAGGGGCTGGCGGGTGTC
109918 I         S  GAGGCACAGGGAAGGGGCAAGGGT
109918 P   T     S  CGCGCCGAGGACAGCCAGTCTGGCY
109918 P   C     S  ATGACGTGGCAGACGCAGCCAGTCTGGCY
109918 T   T     S  AGCTGCCAGACTGGCTGCCCCTTCCCTGTGCCTCGG
109918 T   C     S  AGCTGCCAGACTGGCTGCCCCTTGCCCCTTCCCTGTGCCTCGG

109918 IS  [TC]      CCCCATCCATCCGGGAGCCTTGGGCAGAGCCTCACGTGACAGAAGCTGCCAGACTGGCTG[TC]CCCTTGCCCCTTCCCTGTGCCTCGGACACGTCCAGCCTCTCCATCTGGCATGGCGGGAGG
109920 I         A  CAGAGTCTCCATAACCACCCCCAAGCCATCC
109920 P   T     A  CGCGCCCAGGTCTCAAATCCCAGACTGCY
109920 P   A     A  ATGACGTGGCAGACACTCAAATCCCAGACTGCY
109920 T   T     A  GTAAGCAGTCTGGGATTTGAGAGATGGCTTGGGGGTGGTTATGGAGACTCTGGG
109920 T   A     A  GTAAGCAGTCTGGGATTTGAGTGATGGCTTGGGGGTGGTTATGGAGACTCTGGG

109920 IS  [TA]      AACAAATTCTATCTCCCTCACCATTTTGCCCAGAGTCTCCATAACCACCCCCAAGCCATC[TA]CTCAAATCCCAGACTGCTTACCCACTTCCCCTGGCTGCTCTACTGAAATGTACCCTTACT
109926 I         A  GTCACAGGCACCTGCAGAGCCCCT
109926 P   G     A  ATGACGTGGCAGACGTGTGTAAGGCGTTCCY
109926 P   C     A  CGCGCCCAGGCTGTGTAAGGCGTTCCY
109926 T   G     A  TGCCGGAACGCCTTACACACGGGGCTCTGCAGGTGCCTGTGACGC
109926 T   C     A  TGCCGGAACGCCTTACACAGGGGGCTCTGCAGGTGCCTGTGACGC

109926 IS  [GC]      TCCACTCCTGCCACCCCTGACTCACACATGTCCCTGCGTCACAGGCACCTGCAGAGCCCC[GC]TGTGTAAGGCGTTCCGGCAACGTCAAGGTGGACACACTGAGCCAGCCTGAGGCCCTCTCCA
109929 I         A  CGCTGGATCTCTTGGCGGAACCGTCAA
109929 P   T     A  CGCGCCGAGGTGGGAAACAGGTAGGAAY
109929 P   C     A  ATGACGTGGCAGACCGGGAAACAGGTAGGAY
109929 T   T     A  CTTCTTCCTACCTGTTCCCATGACGGTTCCGCCAAGAGATCCAGCGAG
109929 T   C     A  CTTCTTCCTACCTGTTCCCGTGACGGTTCCGCCAAGAGATCCAGCGAG

109929 IS  [TC]      CATGTACAAGATCAATTACAGTCGGGATGGCACTCGCTGGATCTCTTGGCGGAACCGTCA[TC]GGGAAACAGGTAGGAAGAAGAGACATCCAGATCCTGGATGTCCAAGACCATATTTTGACT
109930 I         S  TGTATTCGTTGATCTAAATTATTTCCAAATGCCTGTACAAGAACTAAATAAATACC
109930 P   C     S  ATGACGTGGCAGACGGATTGGTTGATTGATTATTGATY
109930 P   A     S  CGCGCCGAGGTGATTGGTTGATTGATTATTGATCY
109930 T   C     S  TTGGGATCAATAATCAATCAACCAATCCGTATTTATTTAGTTCTTGTACAAGGCATTTGGAAATAATTTAGATGAAGGAATACACA
109930 T   A     S  TTGGGATCAATAATCAATCAACCAATCAGTATTTATTTAGTTCTTGTACAAGGCATTTGGAAATAATTTAGATGAAGGAATACACA
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FIGURE 129G

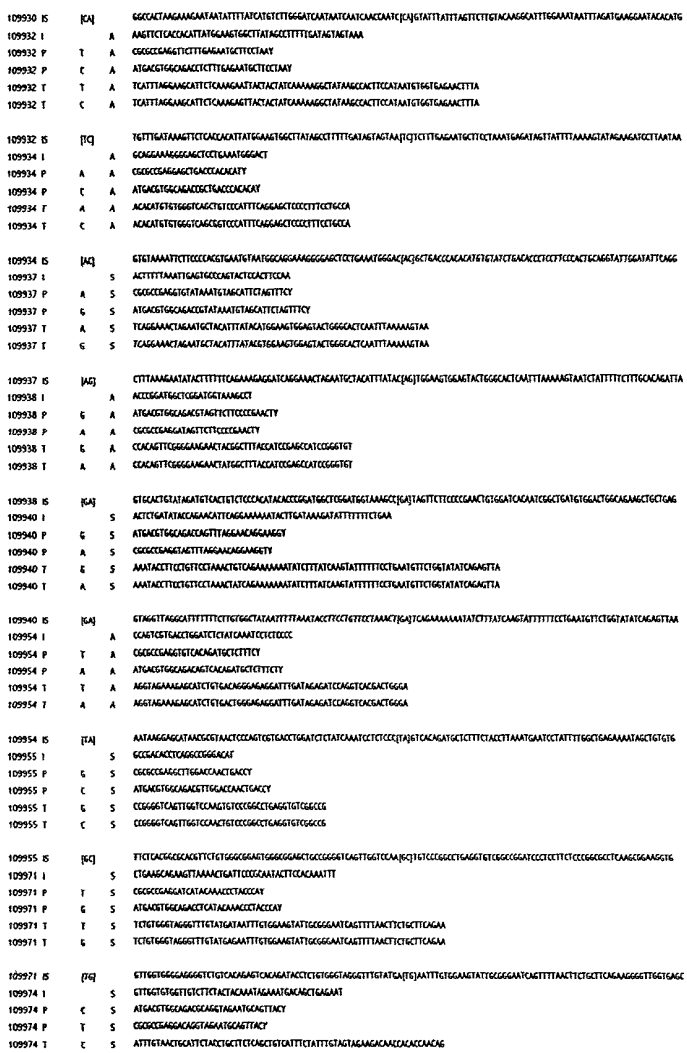


FIGURE 129G

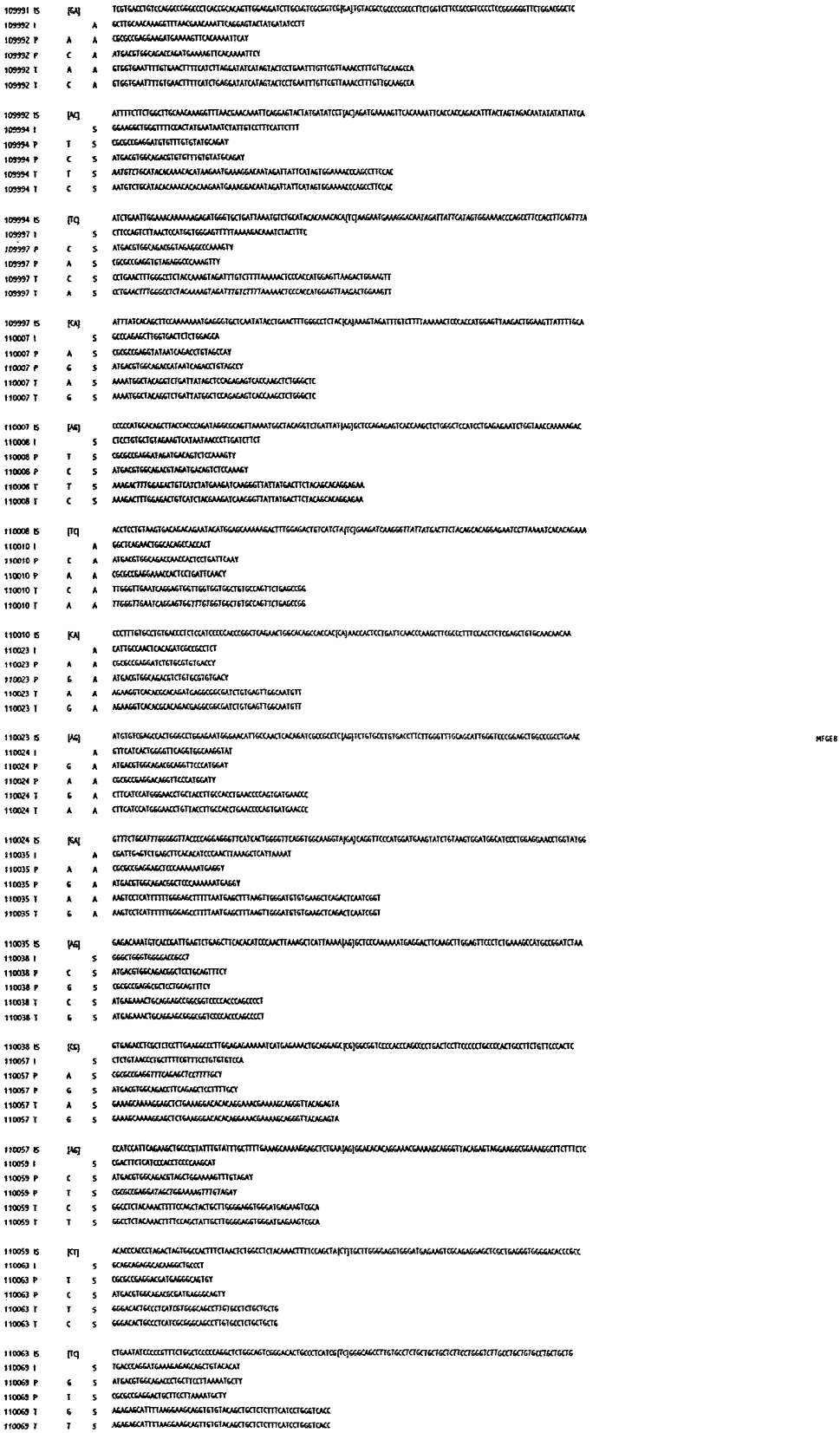


FIGURE 129G

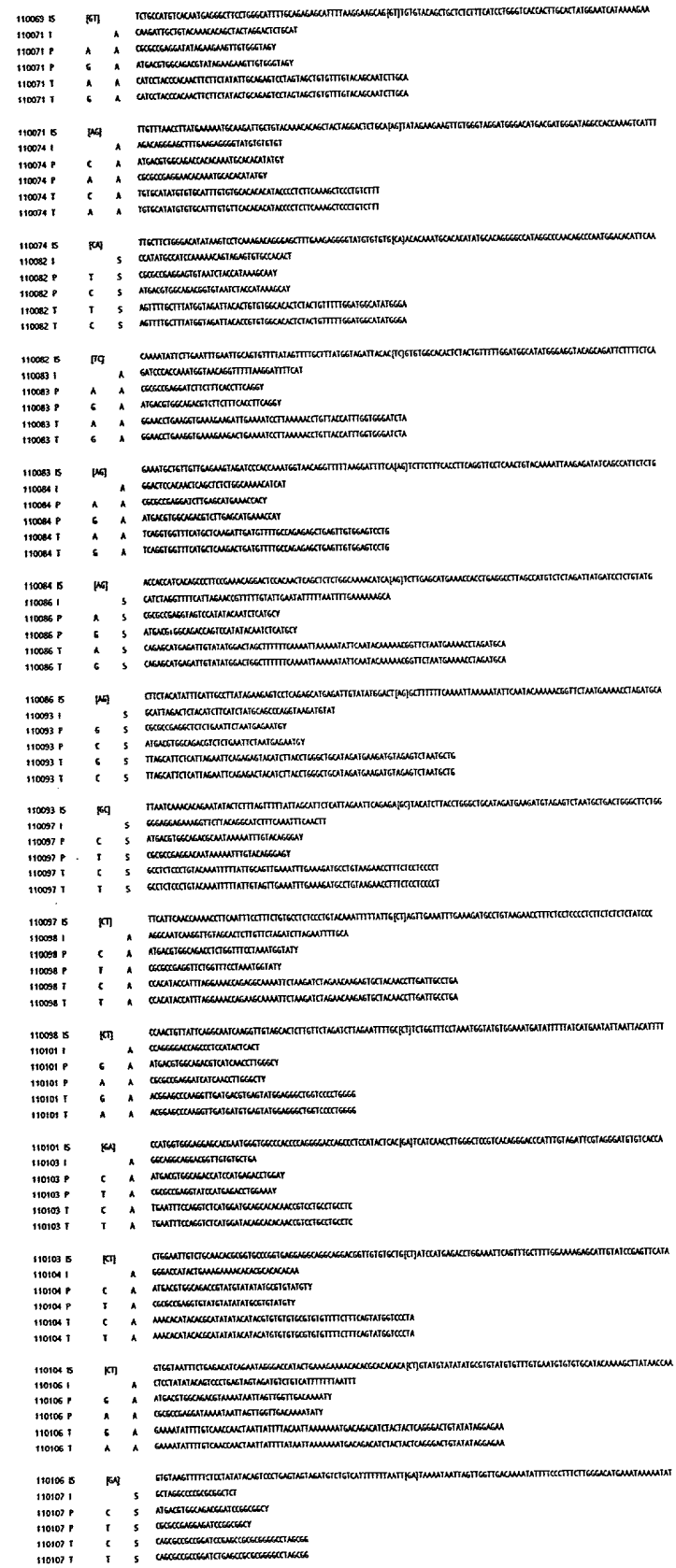


FIGURE 129G

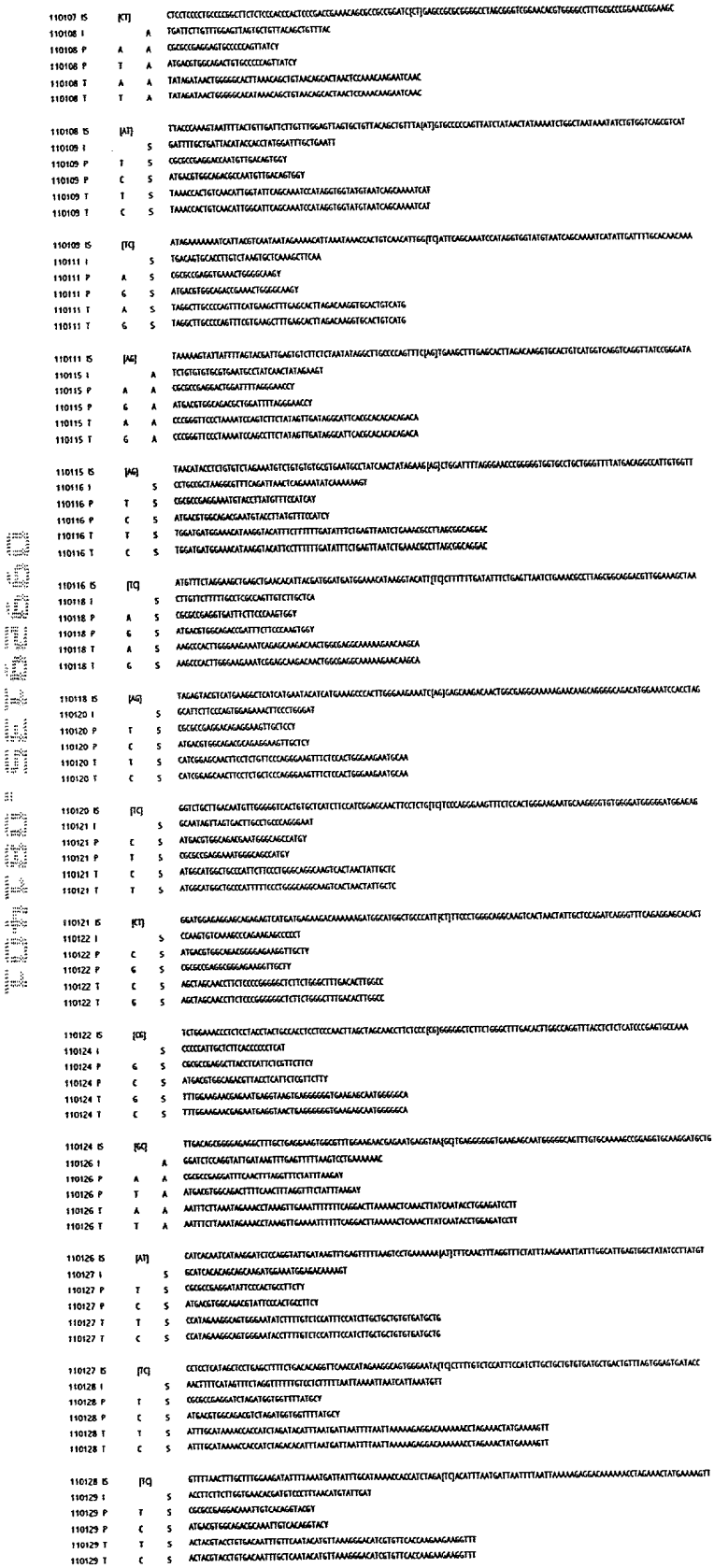
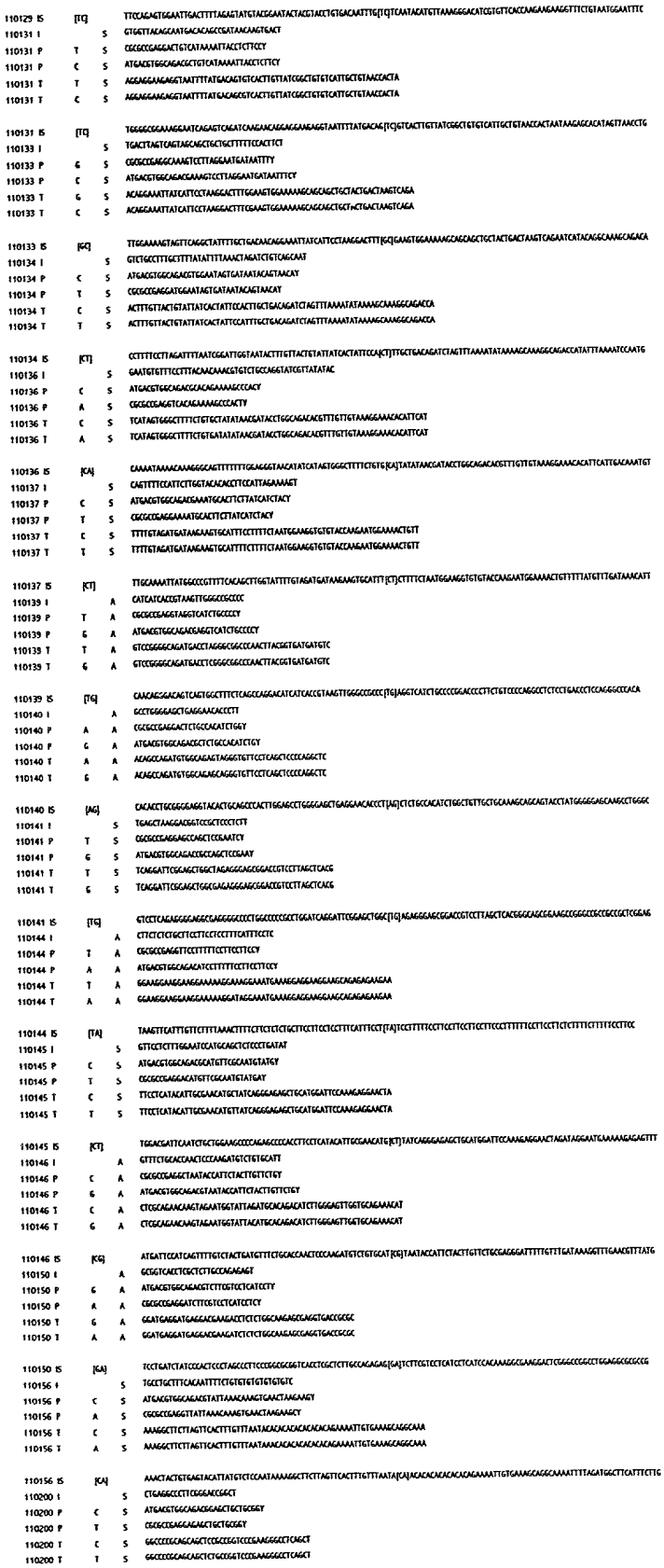
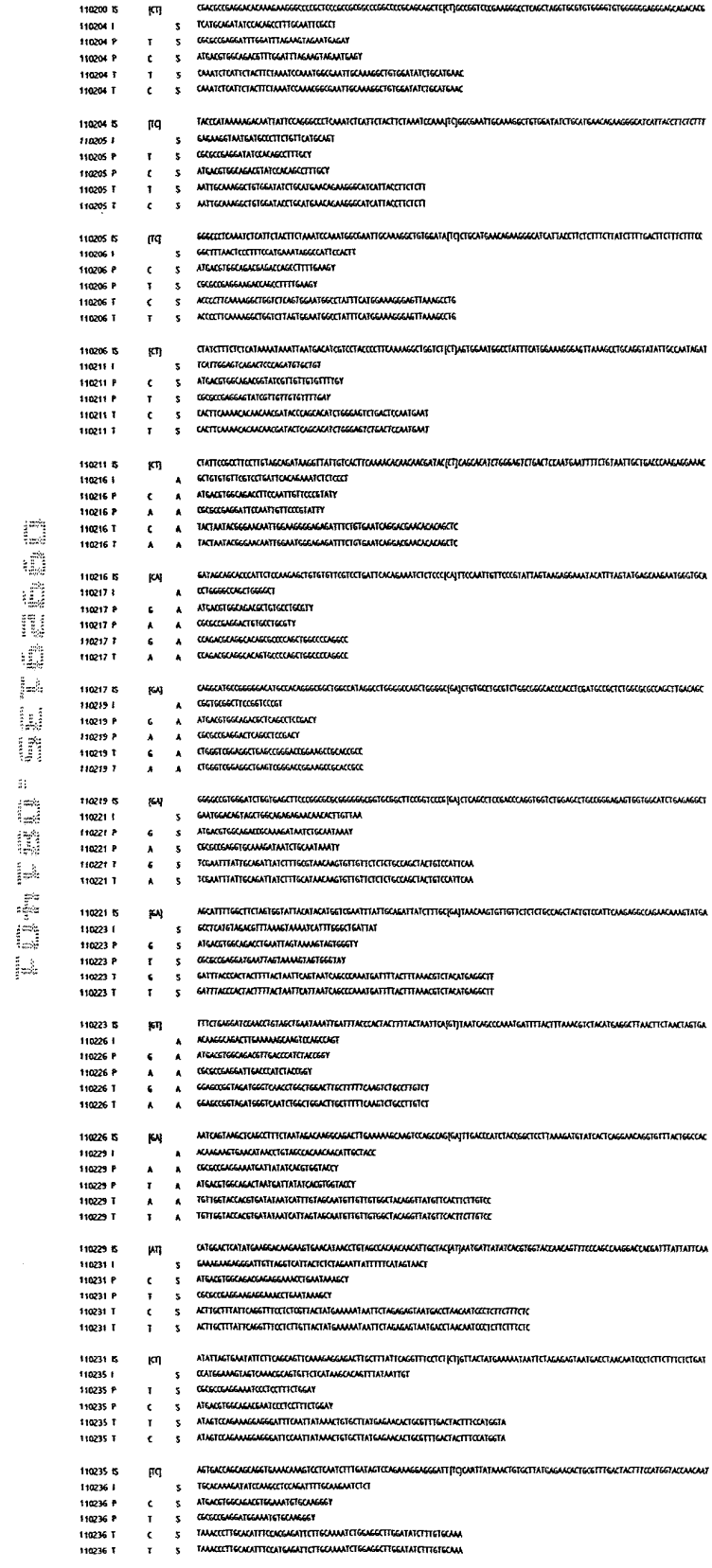

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110108 I A TGATTCTTGTTTGGAGTTAGTGCTGTTACAGCTGTTTAC
110108 P A A CGCGCCGAGGAGTGCCCCCAGTTATCY
110108 P T A ATGACGTGGCAGACTGTGCCCCCAGTTATCY
110108 T A A TATAGATAACTGGGGGCACTTAAACAGCTGTAACAGCACTAACTCCAAACAAGAATCAAC
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110109 I S GATTTTGCTGATTACATACCACTATGGATTTGCTGAATT
110109 P T S CGCGCCCAGGACCAATGTTGACAGTGGY
110109 P C S ATGACGTGGCAGACGCCAATGTTGACAGTGGY
110109 T T S TAAACCACTGTCAACATTGGTATTCAGCAAATCCATAGGTGGTATGTAATCAGCAAAATCAT
110109 T C S TAAACCACTGTCAACATTGGCATTCAGCAAATCCATAGGTGGTATGTAATCAGCAAAATCAT
110109 IS [TC] ATAGAAAAAAATCATTAGGTCAATAATAGAAAACATTAAATAAACCACTGTCAACATTGG[TC]ATTCAGCAAATCCATAGGTGGTATGTAATCAGCAAAATCATATTTGATTTTGCACAACAAA
110111 I S TGACAGTGCAACCTTGTCTAAGTGCTCAAAGCTTCAA
110111 P A S CGCGCCCGAGGCTGAAACTGGGGCAAGY
110111 P G S ATGACGTGGCAGACCGAAACTGGGGCAAGY
110111 T A S TAGGCTTGCCCCAGTTTCATGAAGCTTTGAGCACTTAGACAAGGTGCACTGTCATG
110111 T G S TAGGCTTGCCCCAGTTTCGTGAAGCTTTGAGCACTTAGACAAGGTGCACTGTCATG
110111 IS [AG] TAAAAAGTATTATTTTAGTACGATTGAGTGTCTTCTCTAATATAGGCTTGCCCCAGTTTC[AG]TGAAGCTTTGAGCACTTAGACAAGGTGCACTGTCATGGTCAGGTCAGGTTATCCGGGATA
110115 I A TCTGTGTGTGCGTGAATGCCTATCAACTATAGAAGT
110115 P A A CGCGCCCAGGACTGGATTTTAGGGAACCY
110115 P G A ATGACGTGGCAGACGCTGGATTTTAGGGAACCY
110115 T A A CCCGGGTTCCCTAAAATCCAGCTCTCTATAGTTGATAGGCATTCAGCACACACACAGACA
110115 T G A CCCGGGTTCCCTAAAATCCAGCCTTCTATAGTTGATAGGCATTCAGCACACACACAGACA
110115 IS [AG] TAACATACCTCTGTGTCTAGAAATGTCTGTGTGTGCGTGAATGCCTATCAACTATAGAAG[AG]CTGGATTTTAGGGAACCCGGGGGTGGTGCCTGCTGGGTTTTATGACAGGCCATTGTGGTT
110116 I S CCTGCCGCTAAGGGGTTTCAGATTAACTCAGAAATATCAAAAAGT
110116 P T S CGGCCCGAGGAAATGTACCTATGTTTCCATCAY
110116 P C S ATGACGTGGCAGACGCTGGATTTTAGGGAACCY
110116 T T S TGGATGATGGAAACATAAGGTACATTTCTTTTTTGATATTTCTGAGTTAATCTGAAACGCCTTAGCGGCAGGAC
110116 T C S TGGATGATGGAAACATAAGGTACATTCCTTTTTTGATATTTCTGAGTTAATCTGAAACGCCTTAGCGGCAGGAC
110116 IS [TC] ATGTTTCTAGGAAGCTGAGCTGAACACATTACGATGGATGATGGAAACATAAGGTACATT[TC]CTTTTTTGATATTTCTGAGTTAATCTGAAACGCCTTAGCGGCAGGACGTTGGAAAGCTAA
110118 I S CTTGTTCTTTTTGCCTCGCCAGTTGTCTTGCTCA
110118 P A S CGCGCCGAGGTGATTTCTTCCCCAAGTGGY
110118 P G S ATGACGTGGCAGACCGATTTCTTCCCAAGTGGY
110118 T A S AAGCCCACTTGGGAAGAAATCAGAGCAAGACAACTGGCGAGGCAAAAAGAACAAGCA
110118 T G S AAGCCCACTTGGGAAGAAATCCGAGCAAGACAACTGGCGAGGCAAAAAGAACAAGCA
110118 IS [AG] TAGAGTACGTCATGAAGGCTCATCATGAATACATCATGAAAGCCCACTTGGGAAGAAATC[AG]CAGCAAGACAACTGGCGAGGCAAAAAGAACAAGCAGGGGCAGACATGGAAATCCACCTAG
110120 I S GCATTCTTCCCAGTGGAGAAACTTCCCTGGGAT
110120 P T S CGCGCCGAGGACAGGAAGTTGCTCCY
110120 P C S ATGACGTGGCAGACGCAGAGGAAGTTGCTCY
110120 T T S CATCGGAGCAACTTCCTCTGTTCCCAGGGAAGTTTCTCCACTGGGAAGAATGCAA
110120 T C S CATCGGAGCAACTTCCTCTGCTCCCAGGGAAGTTTCTCCACTGGGAAGAATGCAA
110120 IS [TC] GGTCTGCTTGACAATGTTGGGGGTCACTGTGCTCATCTTCCATCGGAGCAACTTCCTCTG[TC]TCCCAGGGAAGTTTCTCCACTGGGAAGAATGCAAGGGGTGTGGGGATGGGGGATGGACAG
110121 I S GCAATAGTTAGTGACTTGCCTGCCCAGGGAAT
110121 P C S ATGACGTGGCAGACGAATGGGCAGCCATGY
110121 P T S CGCGCCGAGGAAATGGGCAGCCATGY
110121 T C S ATGGCATGGCTGCCCATTCTTCCCTGGGCAGGCAAGTCACTAACTATTGCTC
110121 T T S ATGGCATGGCTGCCCATTTTCCCTGGGCAGGCAAGTCACTAACTATTGCTC
110121 IS [CT] GGATGGAGAGGAGCAGAAGTCATGATGAGAAGACAAAAAAGATGGCATGGCTGCCCATT[CT]TTCCCTGGGCAGGCAAGTCACTAACTATTGCTCCAGATCAGGGTTTCAGAGGAGCACACT
110122 I S CCAAGTGTCAAAGCCCAGAAGAGCCCCCT
110122 P C S ATGACGTGGCAGAAGGGGAGAAGGTTGCTY
110122 P G S CGCGCCGAGGCGGGAGAAGGTTGCTY
110122 T C S AGCTAGCAACCTTCTCCCCGGGGGGCTCTTCTGGGCTTTGACACTTGGCC
110122 T G S AGCTAGCAACCTTCTCCCGGGGGGCTCTTCTGGGCTTTGACACTTGGCC
110122 IS [CG] TCTGGAAACCCCTCCTACCTACTGCCCACCTCCTCCCAACTTAGCTAGCAACCTTCTCCC[CG]GGGGGCTCTTCTGGGCTTTGACACTTGGCCAGGTTTACCTCTCTCATCCCGAGTGCCAAA
110124 I S CCCCCATTGCTCTTCACCCCCCTCAT
110124 P G S CGCGCCGAGGCTTACCTCATTCTCGTTCCTCY
110124 P C S ATGACGTGGCAGACGTTACCTCATTCTCGTTCTTY
110124 T G S TTTGGAAGAACGAGAATGAGGTAAGTGAGGGGGGTGAAGAGCAATGGGGGCA
110124 T C S TTTGGAAGAACGAGAATGAGGTAACTGAGGGGGGTGAAGAGCAATGGGGGCA
110124 IS [GC] TTGACAGCGGGGAGAGGCTTTGCTGAGGAAGTGGGGTTTGGAAGAACGAGAATGAGGTAA[GC]TGAGGGGGGTGAAGAGCAATGGGGGCAGTTTGTGCAAAAGCCGGAGGTGCAAGGATGCTG
110126 I A GGATCTCCAGGTATTGATAAETTTGAGTTTTTAAGTCCTGAAAAAC
110126 P A A CGCGCCGAGGATTTCAACTTAGGTTTCTATTTAAGAY
110126 P T A ATGACGTGGCAGACTTTTCAACTTTAGGTTTCTATTTAAGAY
110126 T A A AATTTCTTAAATAGAAACCTAAGTTGAAATTTTTTTCAGGACTTAAAAACTCAAACTTATCAATACCTGGAGATCCTT
110126 T T A AATTTCTTAAATAGAAACCTAAGTTGAAAATTTTTTCAGGACTTAAAAACTCAAACTTATCAATACCTGGAGATCCTT
110126 IS [AT] CATCACAATCATAAGGATCTCCAGGTATTGATAAGTTTGAGTTTTTAAGTCCTGAAAAAA[AT]TTTCAACTTTAGGTTTCTATTTAAGAAATTATTTGGCATTGAGTGGCTATATCCTTATGT
110127 I S GCATCACACAGCAGCAAGATGGAAATGGAGACAAAAGT
110127 P T S CGCGCCGAGGATATTCCCACTGCCTTCTY
110127 P C S ATGACGTGGCAGACGTATTCCCACTGCCTTCY
110127 T T S CCATAGAAGGCAGTGGGAATATCTTTTGTCTCCATTTCCATCTTGCTGCTGTGTGTGATGCTG
110127 T C S CCATAGAAGGCAGTGGGAATACCTTTTGTCTCCATTTCCATCTTGCTGCTGTGTGTGATGCTG
110127 IS [TC] CCTCCTCATAGCTCCTGAGCTTTTCTGACACAGGTTCAACCATAGAAGGCAGTGGGAATA[TC]CTTTTGTCTCCATTTCCATCTTGCTGCTGTGTGATGCTGACTGTTTAGTGGAGTGATACC
110128 I S AACTTTCATAGTTTCTAGGTTTTTTGTCTCTTTTAATTAAAATTAATCATTAAATGTT
110128 P T S CGCGCCGAGGATCTAGATGGTGGTTTTATGCY
110128 P C S ATGACGTGGCAGACGTCTAGATGGTGGTTTTATGCY
110128 T T S ATTTGCATAAAACCACCATCTAGATACATTTAATGATTAATTTTAATTAAAAAGAGGACAAAAAACCTAGAAACTATGAAAGTT
110128 T C S ATTTGCATAAAACCACCATCTAGACACATTTAATGATTAATTTTAATTAAAAAGAGGACAAAAAACCTAGAAACTATGAAAGTT
110128 IS [TC] GTTTTAACTTTGCTTTGCAAGATATTTTAAATGATTATTTGCATAAAACCACCATCTAGA[TC]ACATTTAATGATTAATTTTAATTAAAAAGAGGACAAAAAACCTAGAAACTATGAAAAGTT
110129 I S ACCTTCTTCTTGGTGAACACGATGTCCCTTTAACATGTATTGAT
110129 P T S CGCGCCGAGGACAAATTGTCACAGGTACGY
110129 P C S ATGACGTGGCAGACGCAAATTGTCACAGGTACY
110129 T T S ACTACGTACCTGTGACAATTTGTTCAATACATGTTAAAGGGACATCGTGTTCACCAAGAAGAAGGTTT
110129 T C S ACTACGTACCTGTGACAATTTGCTCAATACATGTTAAAGGGACATCGTGTTCACCAAGAAGAAGGTTT

FIGURE 129G



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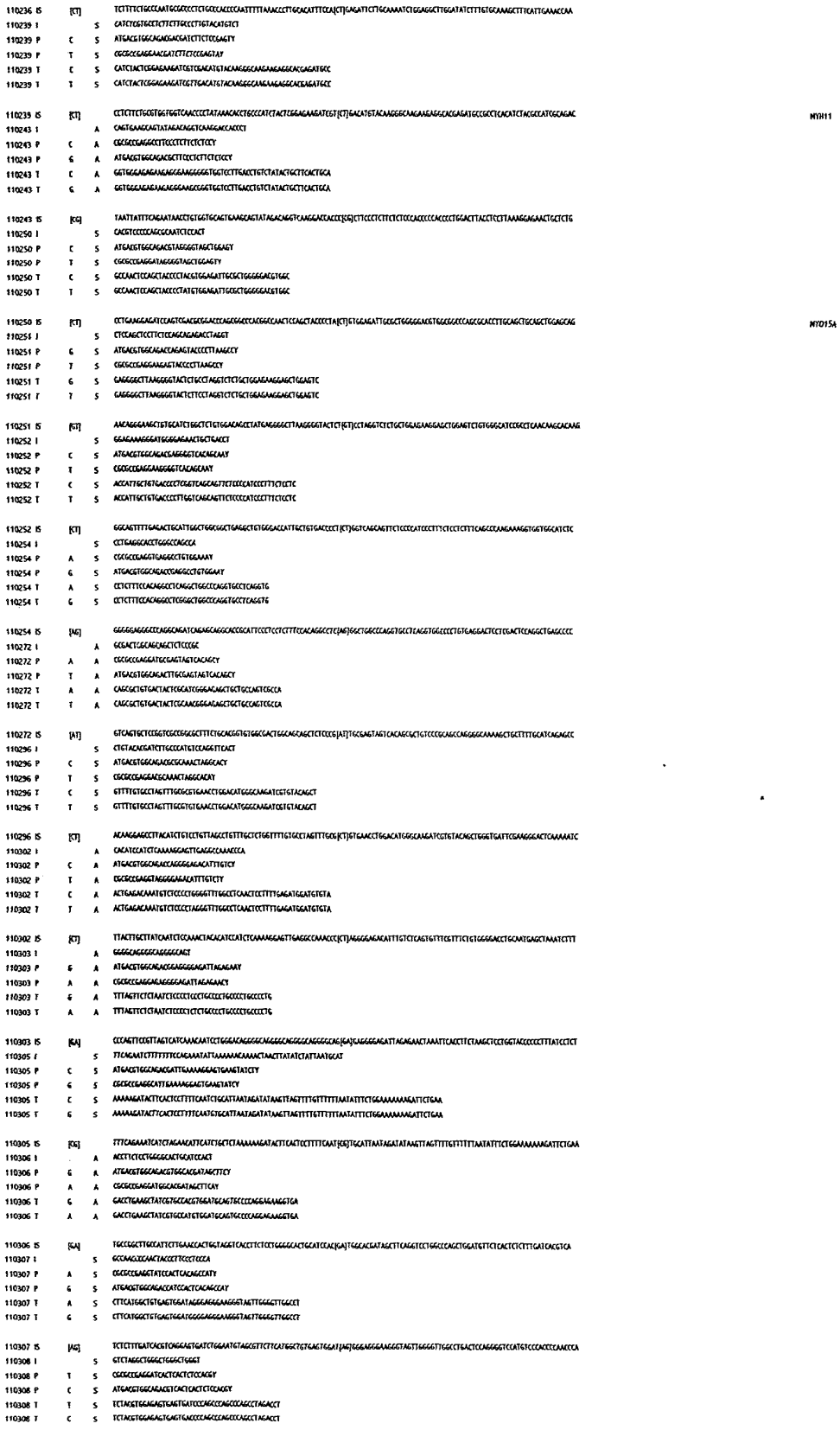
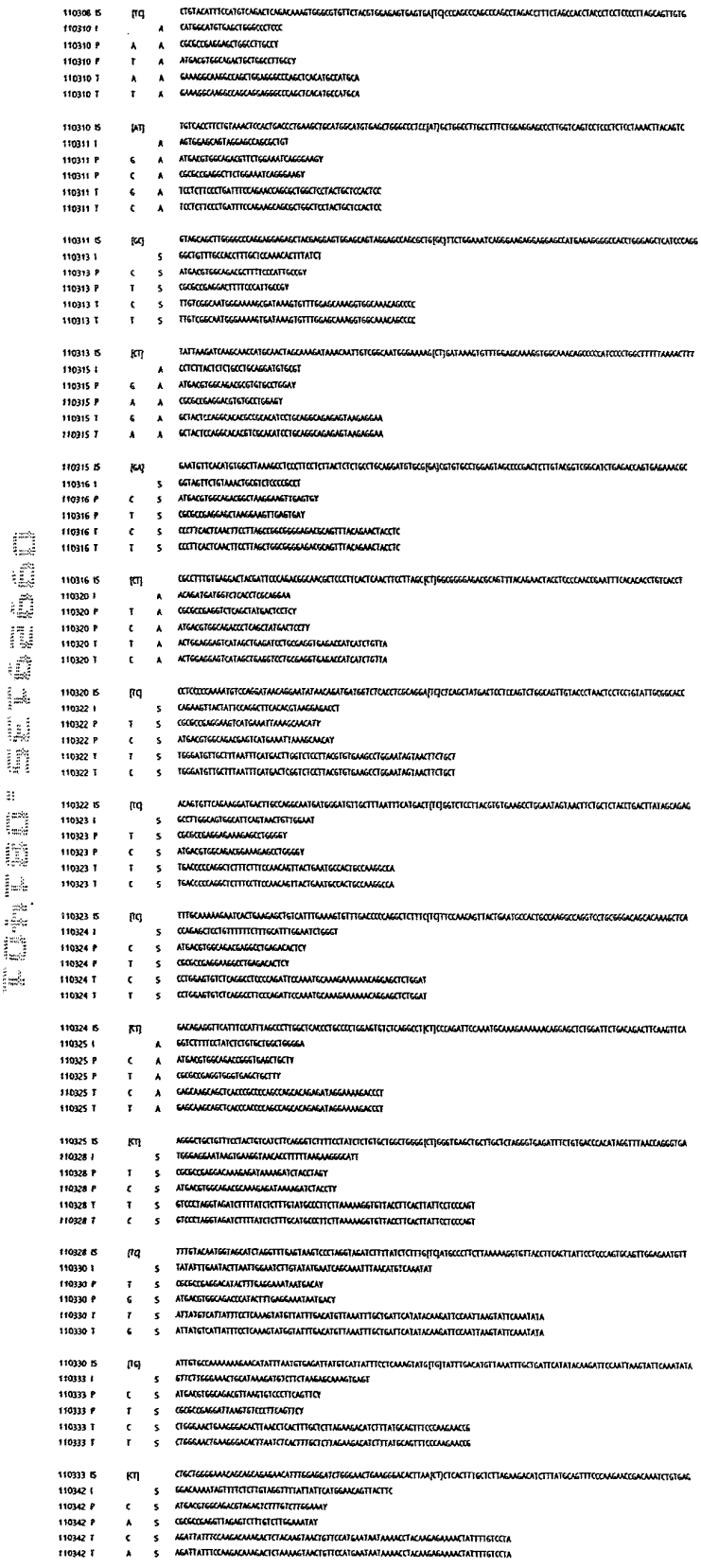


FIGURE 129G


110308 15 [TC] CTGTACATTTCCATGTCAGACTCAGACAAAGTGGGGCTGTTCTACGTGGAGAGTGAGTGA[TC]CCCAGCCCAGCCCAGCCTAGACCTTTCTAGCCACCTACCCTCCTCCCCTTAGCAGTTGTG
110310 1 A CATGGCATGTCAGCTGGGCCCTCCC
110310 P A A CGCCCCGAGGAGCTGGCCTTGCCY
110310 F T A ATGACGTGGCAGACTGCTGCCCTTGCCY
110310 T A A GAAAGGCAAGCCCAGCTGGAGGCCCAGCTCACATGCCATGCA
110310 T T A GAAAGGCAAGCCCAGCAGGAGGGCCCAGCTCACATGCCATGCA

110310 15 [AT] TGTCACCTTCTGTAAACTCCACTGACCCTGAAGCTGCATGGCATGTGAGCTGGGCCCTCC[AT]GCTGGCCTTGCCTTTCTGGAGGAGCCCTTGGTCAGTCCTCCCTCTCTCTAAACTTACAGTC
110311 1 A AGTGGAGCAGTAGCAGCCAGCGCTGT
110311 P G A ATGACGTGGCAGACGTTCTGGAAATCAGCGCAAGY
110311 P C A CGCGCCGAGGCTTCTGGAAATCAGGGAAGY
110311 T G A TCCTCTTCCCTGATTTCCAGAACCAGCGCTGGCTCCTACTGCTCCACTCC
110311 T C A TCCTCTTCCCTGATTTCCAGAAGCAGCGCTGGCTCCTACTGCTCCACTCC

110311 15 [GC] GTAGCAGCTTGGGGCCCAGCAGGGAGAGCTACGAGAGAGTGGAGCAGTAGGAGCCAGCGCTG[GC]TTCTGGAAATCAGGGAAGAGGAGAGCCATGAGAGGGGCCAACTGGGAGCTCATCCCAGG
110313 1 S GGCTGTTTGCCACCTTTGCTCCAAACACTTTATCT
110313 P C S ATGACGTGGCAGACGCTTTTCCCATTGCCGY
110313 P T S CGCGCCGAGGACTTTTCCCATTGCCGY
110313 T C S TTGTCGGCAATGGGAAAAGCGATAAAGTGTTTGGAGCAAAGGTGGCAAACAGCCCC
110313 T T S TTGTCGGCAATGGGAAAAGTGATAAAGTGTTTGGAGCAAAGGTGGCAAACAGCCCC

110313 15 [CT] TATTAAGATCAAGCAACCATGCAACTAGCAAAGATAAACAATTGTCGGCAATGGGAAAAG[CT]GATAAAGTGTTTGGAGCAAAGGTGGCAAACAGCCCCCATCCCCTGGCTTTTAAAACTTT
110315 1 A CCTCTTACTCTCTGCCTGCAGGATGTGCGT
110315 P G A ATGACGTGGCAGACGCGTGTGCCTGGAY
110315 P A A CGCGCCGAGGACGTGTGCCTGGAGY
110315 T G A GCTACTCCAGGCACACGCCGCACATCCTGCAGGCAGAGAGTAAGAGGAA
110315 T A A GCTACTCCAGGCACACGTCGCACATCCTGCAGGCAGAGAGTAAGAGGAA

110315 15 [GA] GAATGTTCACATGTGGGCTTAAAGCCTCCCTTCCTCTTACTCTCTGCCTGCAGGATGTGCG[GA]CGTGTGCCTGGAGTAGCCCCGACTCTTGTACGGTCGGCATCTGAGACCAGTGAGAAACGC
110316 1 S GGTAGTTCTGTAAACTGCGTCTCCCCGCCT
110316 P C S ATGACGTGGCAGACGGCTAAGGAAGTTGAGTGY
110316 P T S CGCGCCGAGGAGCTAAGGAAGTTGAGTGAY
110316 T C S CCCTTCACTCAACTTCCTTAGCCGCGCGGGGAGACGCAGTTTACAGAACTACCTC
110316 T T S CCCTTCACTCAACTTCCTTAGCTGGCGGGGAGACGCAGTTTACAGAACTACCTC

110316 15 [CT] CGCCTTTGTGAGGACTACGATTCCCAGACGGCAACGCTCCCTTCACTCAACTTCCTTAGC[CT]GGCGGGGAGACGCAGTTTACAGAACTACCTCCCCAACCGAATTTCACACACCTGTCACCT
110320 1 A ACAGATGATGGTCTCACCTCGCAGGAA
110320 P T A CGCGCCGAGGTCTCAGCTATGACTCCTCY
110320 P C A ATGACGTGGCAGACCCTCAGCTATGACTCCTY
110320 T T A ACTGGAGGAGTCATAGCTAGATCCTGCGAGGTGAGACCATCATCTGTTA
110320 T C A ACTGGAGGAGTCATAGCTGAGGTCCTGCGAGGTGAGACCATCATCTGTTA

110320 15 [TC] CCTCCCCCAAAATGTCCAGGATAACAGGAATATAACAGATGATGGTCTCACCTCGCAGGA[TC]CTCAGCTATGACTCCTCAGTCTGGCAGTTGTACCCTAACTCCTCCTGTATTGCGGCACC
110322 1 S CAGAAGTTACTATTCCAGCTTCACACGTAAGGAGACCT
110322 P T S CGCGCCGAGGAAGTCATGAAATTAAAGCAACATY
110322 P C S ATGACGTGGCAGACGAGTCATGAAATTAAAGCAACAY
110322 T T S TGGGATGTTGCTTTAATTTCATGACTCGGTCTCCTTACGTGTGAAGCCTGGAATAGTAACTTCTGCT
110322 T C S TGGGATGTTGCTTTAATTTCATGACTCGGTCTCCTTACGTGTGAAGCCTGGAATAGTAACTTCTGCT

110322 15 [TC] ACAGTGTTCAGAAGGATGACTTGCCAGGCAATGATGGGATGTTGCTTTAATTTCATGACT[TC]GGTCTCCTTACGTGTGAAGCCTGGAATAGTAACTTCTGCTCTACCTGACTTATAGCAGAG
110323 1 S GCCTTGGCAGTGGCATTCAGTAACTGTTGGAAT
110323 P T S CGCGCCGAGGAGAAAGAGCCTGGGGY
110323 P C S ATGACGTGGCAGACGGAAAGAGCCTGGGGY
110323 T T S TGACCCCCAGGCTCTTTCTTCCAACAGTTACTGAATGCCACTGCCAAGGCCA
110323 T C S TGACCCCCAGGCTCTTTCTTCCAACAGTTACTGAATGCCACTGCCAAGGCCA

110323 15 [TC] TTTGCAAAAAGAATCACTGAAGAGCTGTCATTTGAAAGTGTTGACCCCAGGCTCTTTCTTCTGTTCCAACAGTTACTGAATGCCACTGCCAAGGCCAGGTCCTGCGGGACAGCACAAAGCTCA
110324 1 S CCAGAGCTCCTGTTTTTTCTTTGCATTTGGAATCTGGGT
110324 P C S ATGACGTGGCAGACGAGGCTGAGACACTCY
110324 P T S CGCGCCGAGGAAGGCCTGAGACACTCY
110324 T C S CCTGGAGTGTCTCAGGCCTCCCCAGATTCCAAATGCAAAGAAAAAACAGGAGCTCTGGAT
110324 T T S CCTGGAGTGTCTCAGGCCTTCCCAGATTCCAAATGCAAAGAAAAAACAGGAGCTCTGGAT

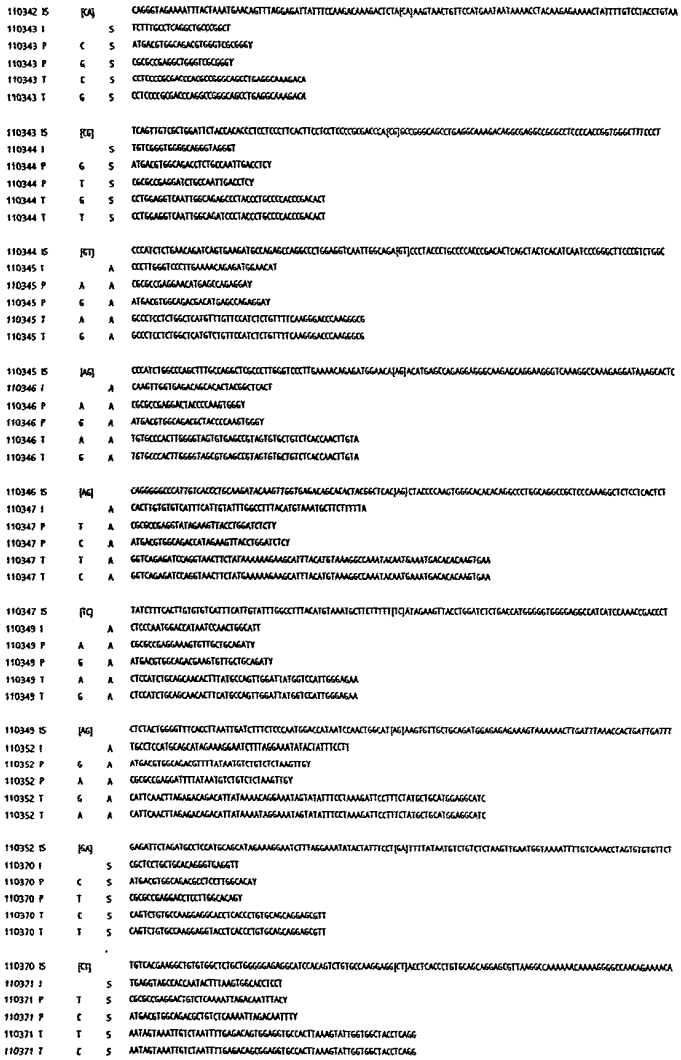
110324 15 [CT] GACAGAGGTTCATTTCCATTTAGCCCTTGGCTCACCCTGCCCCTGGAGTGTCTCAGGCCT[CT]CCCAGATTCCAAATGCAAAGAAAAAACAGGAGCTCTGGATTCTGACAGACTTCAAGTTCA
110325 1 A GGTCTTTTCCTATCTCTGTGCTGGCTGGGGA
110325 P C A ATGACGTGGCAGACGGGGTGAGCTGCTY
110325 P T A CGCGCCGAGGTGGGTGAGCTGCTTY
110325 T C A GAGCAAGCAGCTCACCCGCCCCAGCCAGCACAGAGATAGGAAAAGACCCT
110325 T T A GAGCAAGCAGCTCACCCACCCCAGCCAGCACAGAGATAGGAAAAGACCCT

110325 15 [CT] AGGGCTGCTGTTCCTACTGTCATCTTCAGGGTCTTTTCCTATCTCTGTGCTGGCTGGGG[CT]GGGTGAGCTGCTTGCTCTAGGGTGAGATTTCTGTGACCCACATAGGTTTAACCAGGGTGA
110328 1 S TGGGAGGAATAAGTGAAGGTAACACCTTTTTAAGAGGGGATT
110328 P T S CGCGCCGAGGACAAAGAGATAAAAGATCTACCTAGT
110328 P C S ATGACGTGGCAGACGCAAAGAGATAAAAGATCTACCTY
110328 T T S GTCCCTAGGTAGATCTTTTATCTCTTTGTATGCCCTTCTTAAAAAGGTGTTACCTTCACTTATTCCTCCCAGT
110328 T C S GTCCCTAGGTAGATCTTTTATCTCTTTGCATGCCCTTCTTAAAAAGGTGTTACCTTCACTTATTCCTCCCAGT

110328 15 [TC] TTTGTACAATGGTAGCATCTAGGTTTGAGTAAGTCCCTAGGTAGATCTTTTATCTCTTTG[TC]ATGCCCTTCTTAAAAAGGTGTTACCTTCACTTATTCCTCCCAGTGCAGTTGGAGAATGTT
110330 1 S TATATTTGAATACTTAATTGGAATCTGTATATGAATCAGCAAATTTAACATGTCAAATAT
110330 P T S CGCGCCGAGGACATACTTTCAGCAAATAATGACAY
110330 P G S ATGACGTGGCAGACCCATACTTTGAGCAAATAATGACY
110330 T T S ATTATGTCATTATTTCCTCAAAGTATGTATTTGACATGTTAAATTTGCTGATTCATATACAACAGATTCCAATTAAGTATTCAAATATA
110330 T G S ATTATGTCATTATTTCCTCAAAGTATGGTATTTGACATGTTAAATTTGCTGATTCATATACAACAGATTCCAATTAAGTATTCAAATATA

110330 15 [TG] ATTGTGCCAAAAAAAGAACATATTTAATGTGAGATTATGTCATTATTTCCTCAAAGTATG[TG]TATTTGACATGTTAAATTTGCTGATTCATATACAACAGATTCCAATTAAGTATTCAAATATA
110333 1 S GTTCTTGGGAAACTGCATAAAGATGTCTTCTAAGAGCAAAGTGAGT
110333 P C S ATGACGTGGCAGACGTTAAGTGTCCCTTCAGTTCY
110333 P T S CGCGCCGAGGATTAAGTGTCCCTTCAGTTCY
110333 T C S CTGGCAACTGAAGGCACACTTAACCTCACTTTGCTCTTAGAAGACATCTTTATGCACTTTCCCAAGAACCG
110333 T T S CTGGCAACTGAAGGCACACTTAATCTCACTTTGCTCTTAGAAGACATCTTTATGCACTTTCCCAAGAACCG

110333 15 [CT] CTGCTGGGGAAACAGCAGCAGAGAACATTTGGAGGATCTGGGAACTGAAGGCACACTTAA[CT]CTCACTTTGCTCTTAGAAGACATCTTTATGCACTTTCCCAAGAACCGACAAATCTGTGAG
110342 1 S GGACAAAATAGTTTTCTCTTGTAGGTTTTATTATTCATGGAACAGTTACTTC
110342 P C S ATGACGTGGCAGACGTAGACTCTTTGTCTTGGAAAY
110342 P A S CGCGCCGAGGTTAGAGTCTTTGTCTTGGAAATAY
110342 T C S AGATTATTTCCAAGACAAAGACTCTACAAGTAACTGTTCCATGAATAATAAAACCTACAAGAGAAAACTATTTTGTCCTA
110342 T A S AGATTATTTCCAAGACAAAGACTCTAAAAGTAACTGTTCCATGAATAATAAAACCTACAAGAGAAAACTATTTTGTCCTA


110342 IS [CA] CAGGGTAGAAAATTTACTAAATGAACAGTTTAGGAGATTATTTCCAAGACAAAGACTCTA[CA]AAGTAACTGTTCCATGAATAATAAAACCTACAAGAGAAAACTATTTTGTCCTACCTGTAA
110343 I S TCTTTGCCTCAGGCTGCCCCGCT
110343 P C S ATGACGTGGCAGACGTGGGTCGCGGGY
110343 P G S CGCGCCGAGGCTGGGTCGCGGGY
110343 T C S CCTCCCCGCCAACCCAGCCCGGCAGCCTGAGGCAAAGACA
110343 T G S CCTCCCCGCGACCCAGGCCGGCAGCCTGAGGCAAAGACA
110343 IS [CG] TCAGTTGTCGCTGGATTCTACCACACCCTCCTCCCTTCACTTCCTCCTCCCCGCGACCCA[CG]GCCGGGGCAGCCTGAGGCAAAGACAGGCGAGGCCGCGCCTCCCCACCGGTGGGCTTCCCCT
110344 I S TGTCGGGTGCGGGCAGGGTAGGGT
110344 P G S ATGACGTGGCAGACCTCTGCCAATTGACCTCY
110344 P T S CGCGCCGAGGATCTGCCAATTGACCTCY
110344 T G S CCTGCAGGTCAATTGGCAGAGCCCTACCCTGCCCCACCCGACACT
110344 T T S CCTGCAGGTCAATTGGCAGATCCCTACCCTGCCCCACCCGACACT
110344 IS [GT] CCCATCTCTGAACAGATCAGTGAAGATGCCAGAGCCAGGCCCTGGAAGGTCAATTGGCAGA[GT]CCCTACCCTGCCCCACCCGACACTCAGCTACTCACATCAATCCCGGGCTTCCCGTCTGGC
110345 I A CCCTTGGGTCCCTTGAAAACAGAGATGGAACAT
110345 P A A CGCGCCGAGGAACATGAGCCAGAGGAY
110345 P G A ATGACGTGGCAGACGACATGAGCCAGAGGAY
110345 T A A GCCCTCCTCTGGCTCATGTTGTTCCATCTCTGTTTTCAAGGGACCCAAGGGCG
110345 T G A GCCCTCCTCTGGCTCATGTCTGTTCCATCTCTGTTTTCAAGGGACCCAAGGGCG
110345 IS [AG] CCCATCTGGCCCAGCTTTGCCAGGCTGCCCTTGGGTCCCTTGAAAACAGAGATGGAACA[AG]ACATGAGCCAGAGAGGGCAGAGCAGGAAGGGTCAAAGGCCAAAGAGGATAAAGCACTC
110346 I A CAAGTTGGTGAGACAGCACACTACGGCTCACT
110346 P A A CGCGCCGAGGACTACCCCAAGTGGGY
110346 P G A ATGACGTGGCAGACGCTACCCCAAGTGGGY
110346 T A A TGTGCCCACTTGGGGTAGTGTGAGCCGTAGTGTGCTGTCTCACCAACTTGTA
110346 T G A TGTGCCCACTTGGGGTAGCGTGAGCCGTAGTGTGCTGTCTCACCAACTTGTA
110346 IS [AG] CAGGGGGCCCATTGTCACCCTGCAAGATACAAGTTGGTGAGACAGCACACTACGGCTCAC[AG]CTACCCCAGTGGGCACACACAGGCCCTGGCAGGCCGCTCCCAAAGGCTCTCCTCACTCT
110347 I A CACTTGTGTGTCATTTCATTGTATTTGGCCTTACATGTAAATGCTTCTTTTTA
110347 P T A CGCGCCGAGGTATAGAAGTTACCTGGATCTCTY
110347 P C A ATGACGTGGCAGACCATAGAAGTTACCTGGATCTCY
110347 T T A GGTCAGAGATCCAGGTAACTTCTATAAAAAAGAAGCATTTACATGTAAAGGCCAAATACAATGAAATGACACACAAGTGAA
110347 T C A GGTCAGAGATCCAGGTAACTTCTATGAAAAAGAAGCATTTACATGTAAAGGCCAAATACAATGAAATGACACACAAGTGAA
110347 IS [TC] TATCTTTCACTTGTGTGTCATTTCATTGTATTTGGCCTTACATGTAAATGCTTCTTTTT[TC]ATAGAAGTTACCTGGATCTCTGACCATGGGGGTGGGGAGGCCATCATCCAAACCGACCCT
110349 I A CTCCCAATGGACCATAATCCAACTGGCATT
110349 P A A CGCGCCGAGGAAAGTGTTGCTGCAGATY
110349 P G A ATGACGTGCCAGACGAAGTGTTGCTGCAGATY
110349 T A A CTCCATCTGCAGCAACACTTTATGCCAGTTGGATTATGGTCCATTGGGAGAA
110349 T G A CTCCATCTGCAGCAACACTTCATGCCAGTTGGATTATGGTCCATTGGGAGAA
110349 IS [AG] CTCTACTGGGGTTTCACCTTAATTGATCTTTCTCCCAATGGACCATAATCCAACTGGCAT[AG]AAGTGTTGCTGCAGATGGAGAGACAAAGTAAAAAACTTGATTTAAACCACTGATTGATTT
110352 I A TGCCTCCATGCAGCATAGAAAGGAATCTTTAGGAAATATACTATTTCCTT
110352 P G A ATGACGTGGCAGACGTTTTATAATGTCTGTCTCTAAGTTGY
110352 P A A CGCGCCGAGGATTTTATAATGTCTGTCTCTAAGTTGY
110352 T G A CATTCAACTTAGAGACAGACATTATAAAACAGGAAATAGTATATTTCCTAAAGATTCCTTTCTATGCTGCATGGAGGCATC
110352 T A A CATTCAACTTAGAGACAGACATTATAAAATAGGAAATAGTATATTTCCTAAACATTCCTTTCTATGCTGCATGGAGGCATC
110352 IS [GA] GAGATTCTAGATGCCTCCATGCAGCATAGAAAGGAATCTTTAGGAAATATACTATTTCCT[GA]TTTATAATGTCTGTCTCTAAGTTGAATGGTAAAATTTTGTCAAACCTAGTGTGTGTTCT
110370 I S CGCTCCTGCTGCACAGGGTGAGGTT
110370 P C S ATGACGTGGCAGACGCCTCCTTGGCACAY
110370 P T S CGCGCCGAGGACCTCCTTGGCACAGY
110370 T C S CAGTCTGTGCCAAGCAGGCACCTCACCCTGTGCAGCAGGAGCGTT
110370 T T S CAGTCTGTGCCAAGCAGGTACCTCACCCTGTGCAGCAGGAGCGTT
110370 IS [CT] TGTCACGAAGGCTGTGTGGCTCTGCTGGGGGAGAGGCATCCACAGTCTGTGCCAAGGAGG[CT]ACCTCACCCTGTGCAGCAGGAGCGTTAAGGCCAAAAACAAAAGGGGCCACAGAAAACA
110371 I S TGAGGTAGCCACCAATACTTTAAGTGGCACCTCCT
110371 P T S CGCGCCGAGGACTGTCTCAAAATTAGACAATTTACY
110371 P C S ATGACGTGGCAGACGCTGTCTCAAAATTAGACAATTTY
110371 T T S AATACTAAATTGTCTAATTTTGAGACAGTGGAGGTGCCACTTAAAGTATTGGTGGCTACCTCAGG
110371 T C S AATAGTAAATTGTCTAATTTTGAGACAGCGGAGGTGCCACTTAAAGTATTGGTGGCTACCTCAGG
110371 IS [TC] GTATTTCTTAAGGAAACATTTTCTTACCATACAATAGTAAATTGTCTAATTTTGAGACAG[TC]GGAGGTGCCACTTAAAGTATTGGTGGCTACCTCAGGAGTTGTATTTGACAAGAGGGGAAA
110373 I S CTCAGAGTGGAAGCTTTAAGGATCACCTTAGCCATCTGT
110373 P C S ATGACGTGGCAGACGAGCAGACTGTTTATTGGGY
110373 P G S CGCGCCGAGGCAGCAGACTGTTTATTGGGY
110373 T C S CTGCCCCAATAAACAGTCTGCTGCAGATGGCTAAGGTGATCCTTAAAGCTTCCACTCTGAGCT
110373 T G S CTGCCCCAATAAACAGTCTGCTGCAGATGGCTAAGGTGATCCTTAAAGCTTCCACTCTGAGCT
110373 IS [CG] AGGCTCCCAGTGGGAGGAGAAGAGAAATGACTGCATCTCTGCCCCAATAAACAGTCTGCT[CG]CAGATGGCTAAGGTGATCCTTAAAGCTTCCACTCTGAGCTCTTGGTGGGGCGATCTATCT
110377 I S CGACCTCCTTCATCTTTGACTTCAGAGGCAAACACTTTTA
110377 P G S ATGACGTGGCAGACCAGCAAAGTTGCGCAY
110377 P A S CGCGCCGAGGTAGCAAAGTTGCGCATTY
110377 T G S ATGCAATGCGCAACTTTGCTGAAAAAGTGTTTGCCTCTGAAGTCAAAGATGAAGGAGGTCGTC
110377 T A S ATGCAATGCGCAACTTTGCTAAAAAAGTGTTTGCCTCTGAAGTCAAAGATGAAGGAGGTCGTC
110377 IS [GA] TTGAACACTAATATGTGAAAACCTCTTTTACAAATTGATGATGCAATGCGCAACTTTGCT[GA]AAAAAGTGTTTGCCTCTGAAGTCAAAGATGAAGGAGGTCGTCAGGAGATTTCCCCCTTTG
110381 I A CTGTTGAGTGCAATGTCATGCGCAGCTCCTCT
110381 P A A CGCGCCGAGGAGACAGTGAAGATGACAGTY
110381 P G A ATGACGTGGCAGACGGACAGTGAAGATGACAGY
110381 T A A TGAAACTGTCATCTTCACTGTCTGAGGAGCTGGCCATGACATTCCACTCAACAGCT
110381 T G A TGAAACTGTCATCTTCACTGTCCGAGGAGCTGGCCATGACATTCCACTCAACAGCT
110381 IS [AG] TACTGATATTTATGTTTTACCTATTACAGCTGTTGAGTGGAATGTCATGGCCAGCTCCTC[AG]GACAGTGAAGATGACAGTTTCATGGCTGTGGACCAGGAAGAAACTGTGCTGGAAGGGACA
110383 I A TGGAAACTCTACCTGATCATTTTTGGTGTTGGTCTCAAGGATT
110383 P A A CGCGCCGAGGAGGTTACTGGGACTCAGY
110383 P G A ATGACGTGGCAGCGGGTTACTGGGACTCAY
110383 T A A GGACCT-AGTCCCAGTAACCTATCCTTCAGACCAACACCAAAAATGATCAGGTAGAGTTTCCATG
110383 T G A GGACCTGAGTCCCAGTAACCCATCCTTCAGACCAACACCAAAAATGATCAGGTAGAGTTTCCATG
110383 IS [AG] CAGGTGACTCCCTTGGCATGGAAACTCTACCTGATCATTTTTGGTGTTGGTCTCAAGGAT[AG]GGTTACTGGGACTCAGGTCCTTAAGTTTAATGTGCCATGTAAATGATAATAGTAATATGC
110386 I A AGGAAATCTACAACAAAAACTAAGAGTTCTATAAATAAAGTAAAAATGTATATTTTTTCT
110386 P A A CGCGCCGAGGAATGACAAAAACCTGTCATATTCY
110386 P C A ATGACGTGGCAGACCATGACAAAAACCTGTCATATTY
110386 T A A TTGGGAATATGACAGGTTTTTGTCATTGAAAAAAATATACATTTTTACTTTATTTATAGAACTCTTAGTTTTTGTTGTAGATTTCCT
110386 T C A TTGGGAATATGACAGGTTTTTGTCATGGAAAAAAATATACATTTTTACTTTATTTATAGAACTCTTAGTTTTTGTTGTAGATTTCCT

PSD

FIGURE 129G

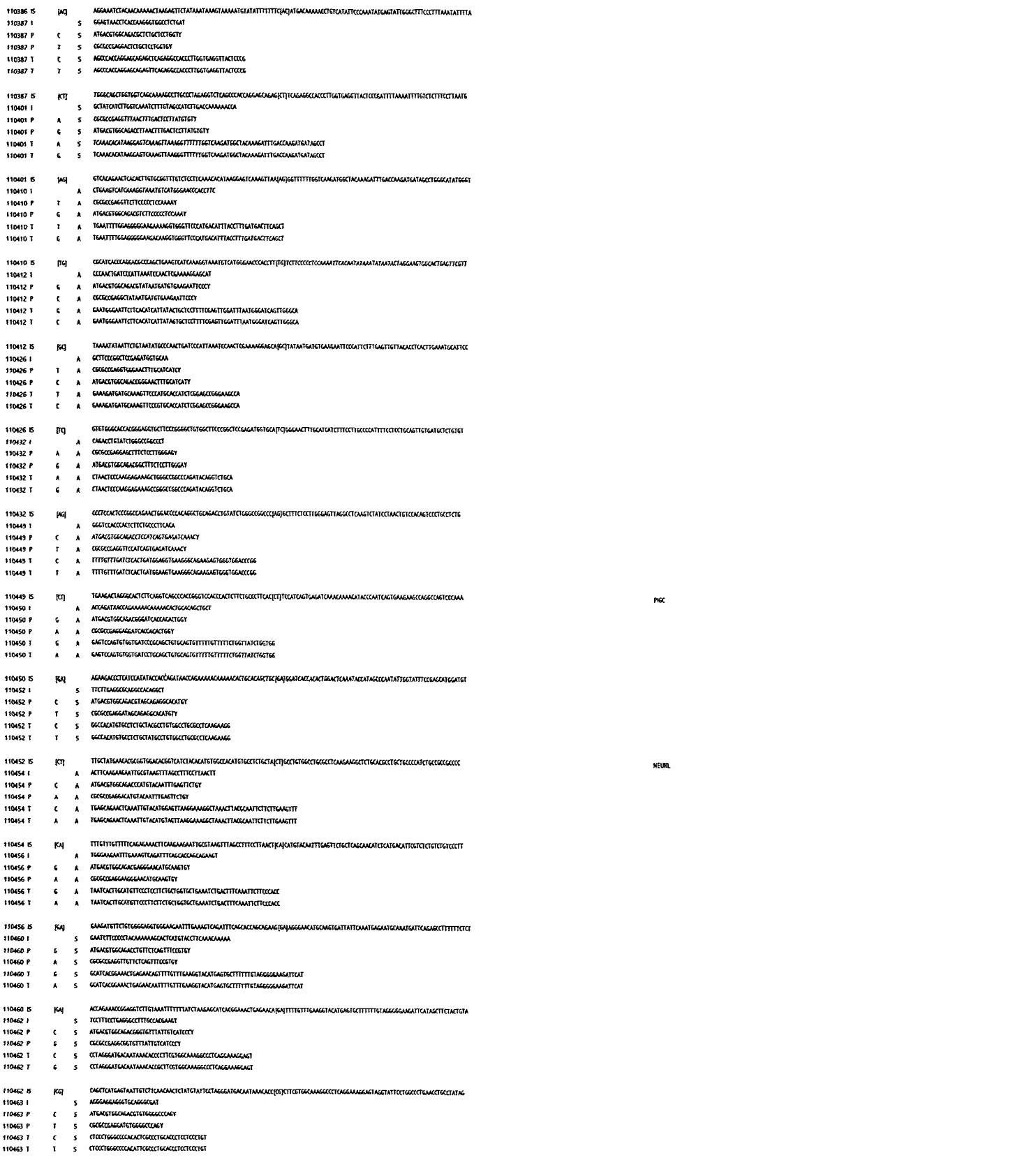


FIGURE 129G

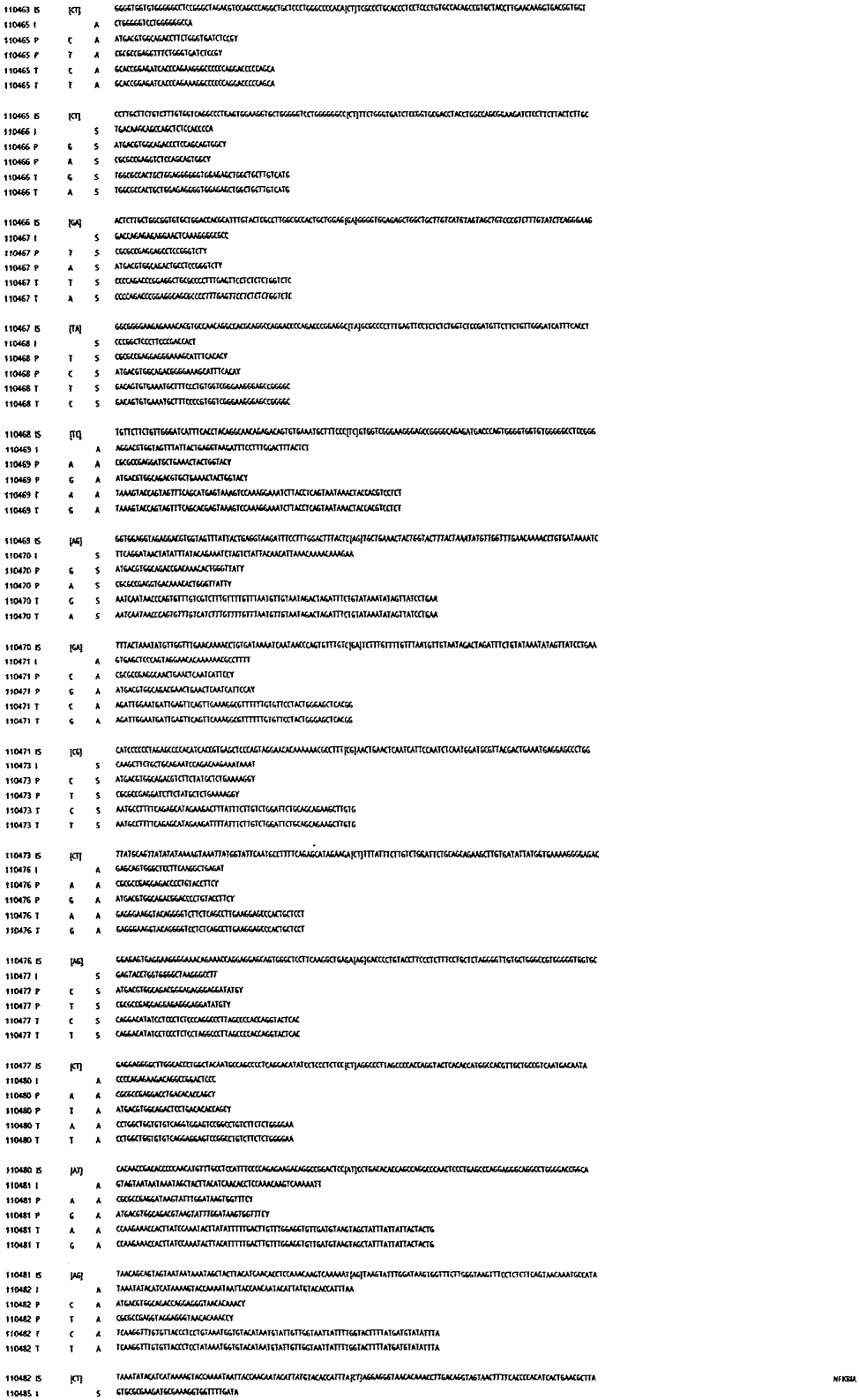


FIGURE 129G

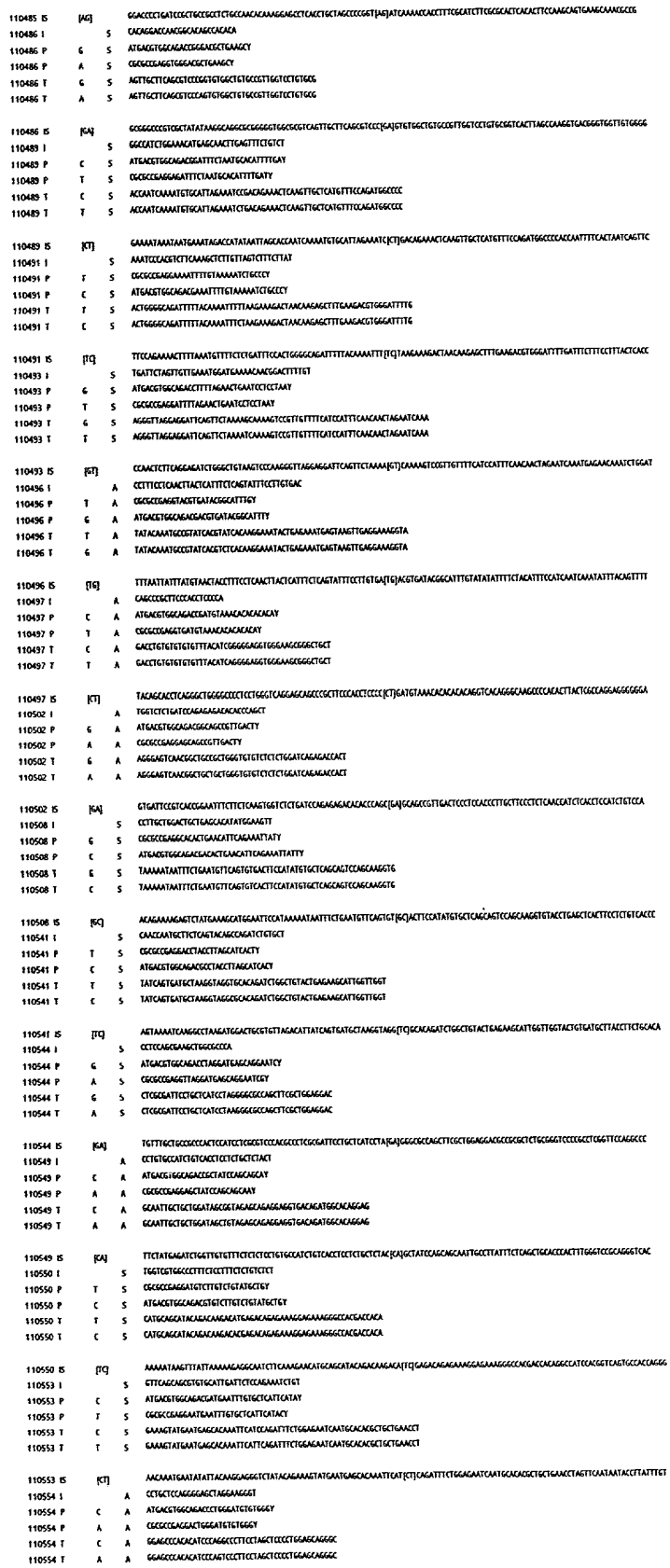


FIGURE 129G

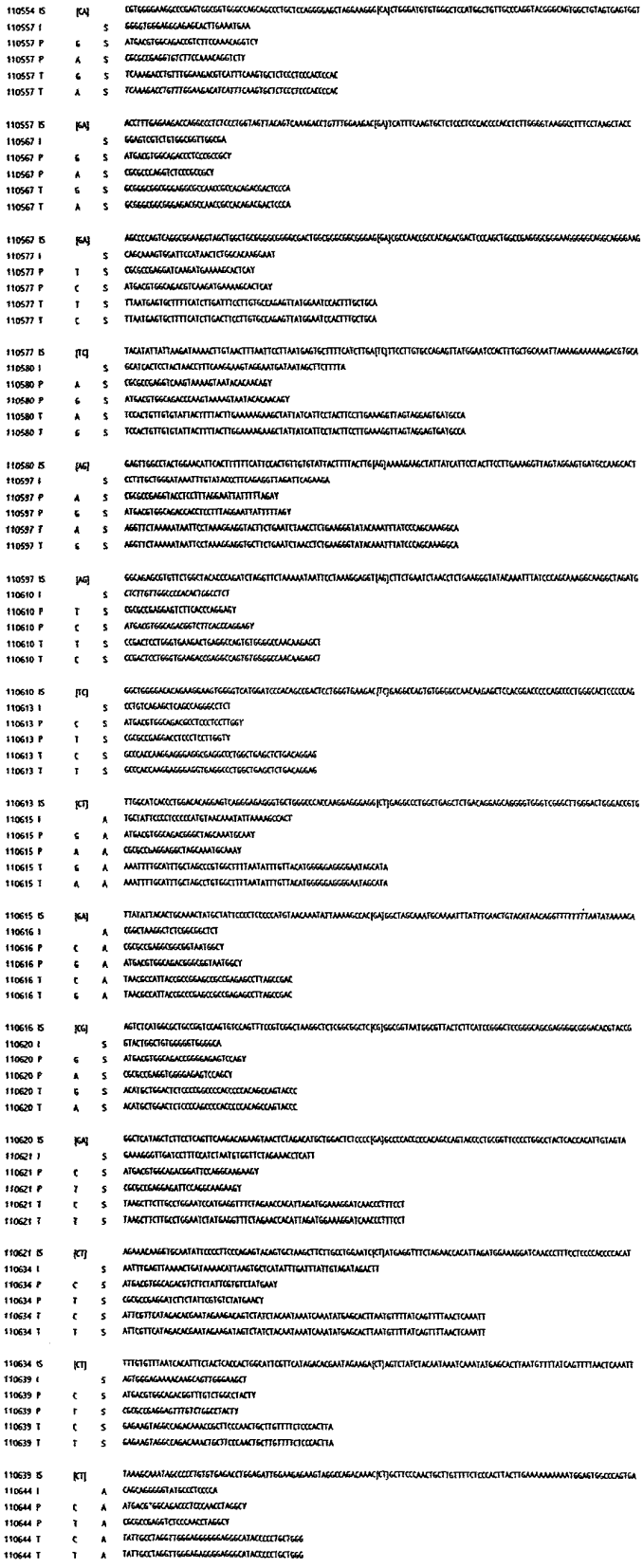
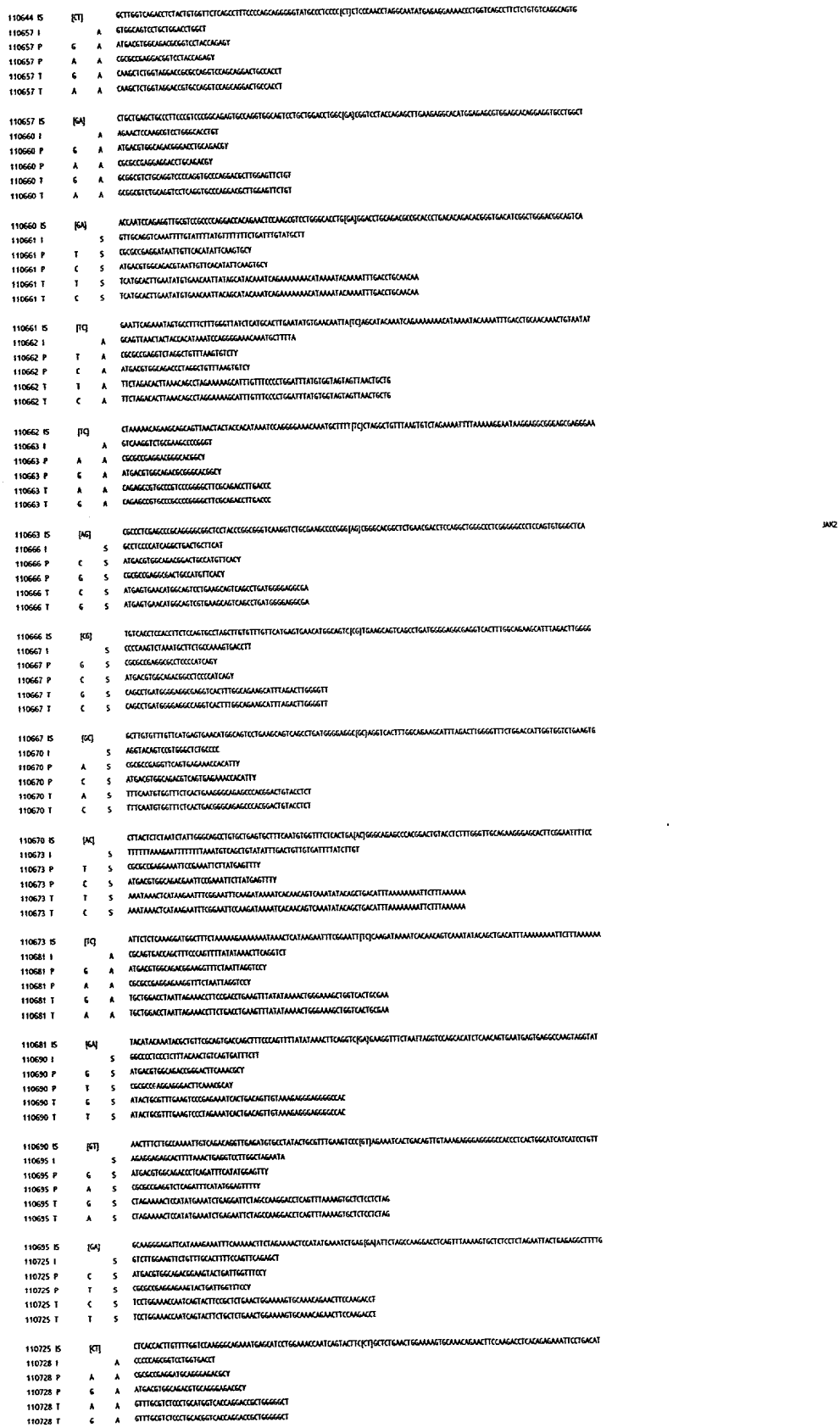


FIGURE 129G



Jak2 Inhibitor Drug Discovery Program

FIGURE 129G

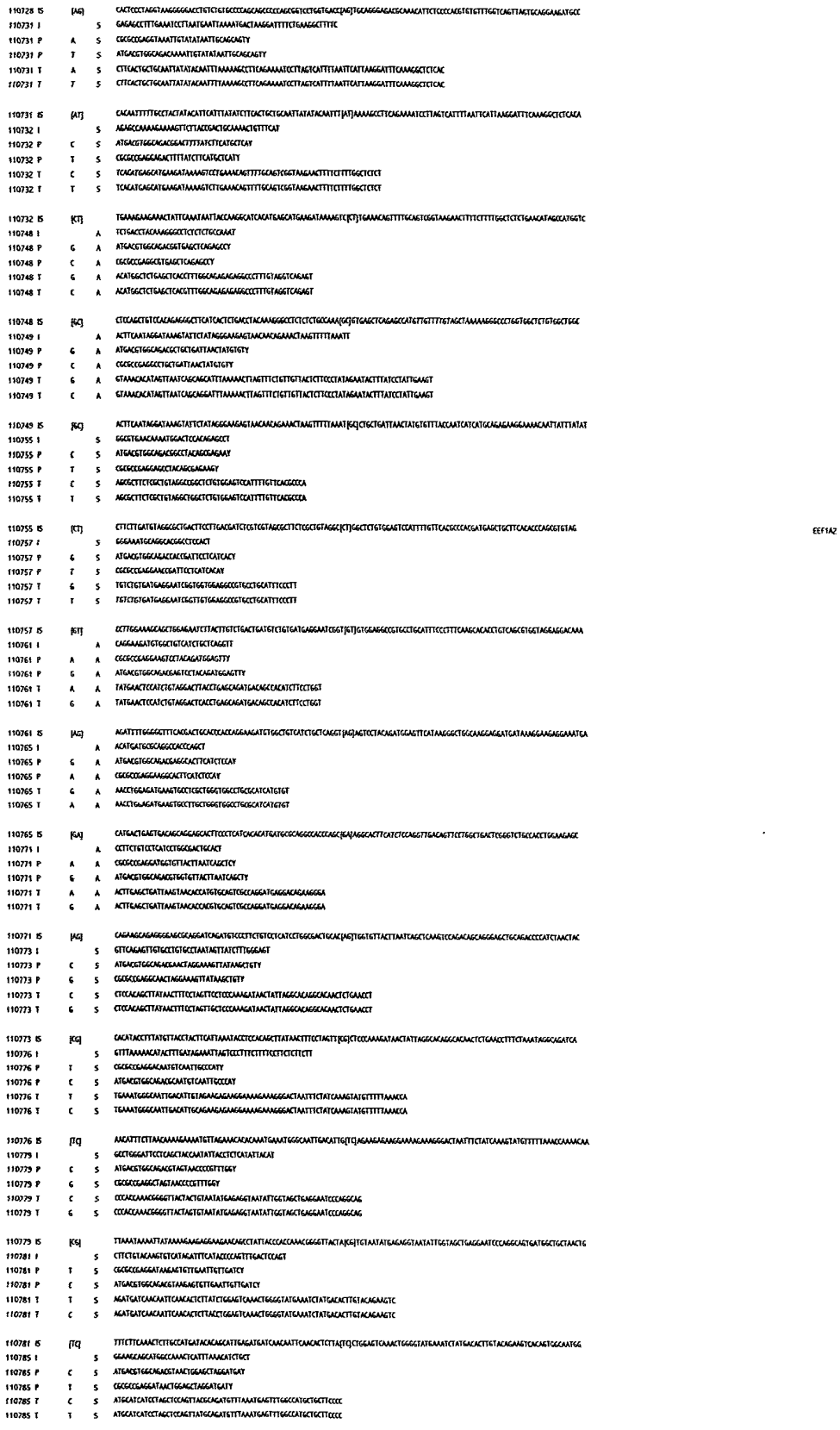
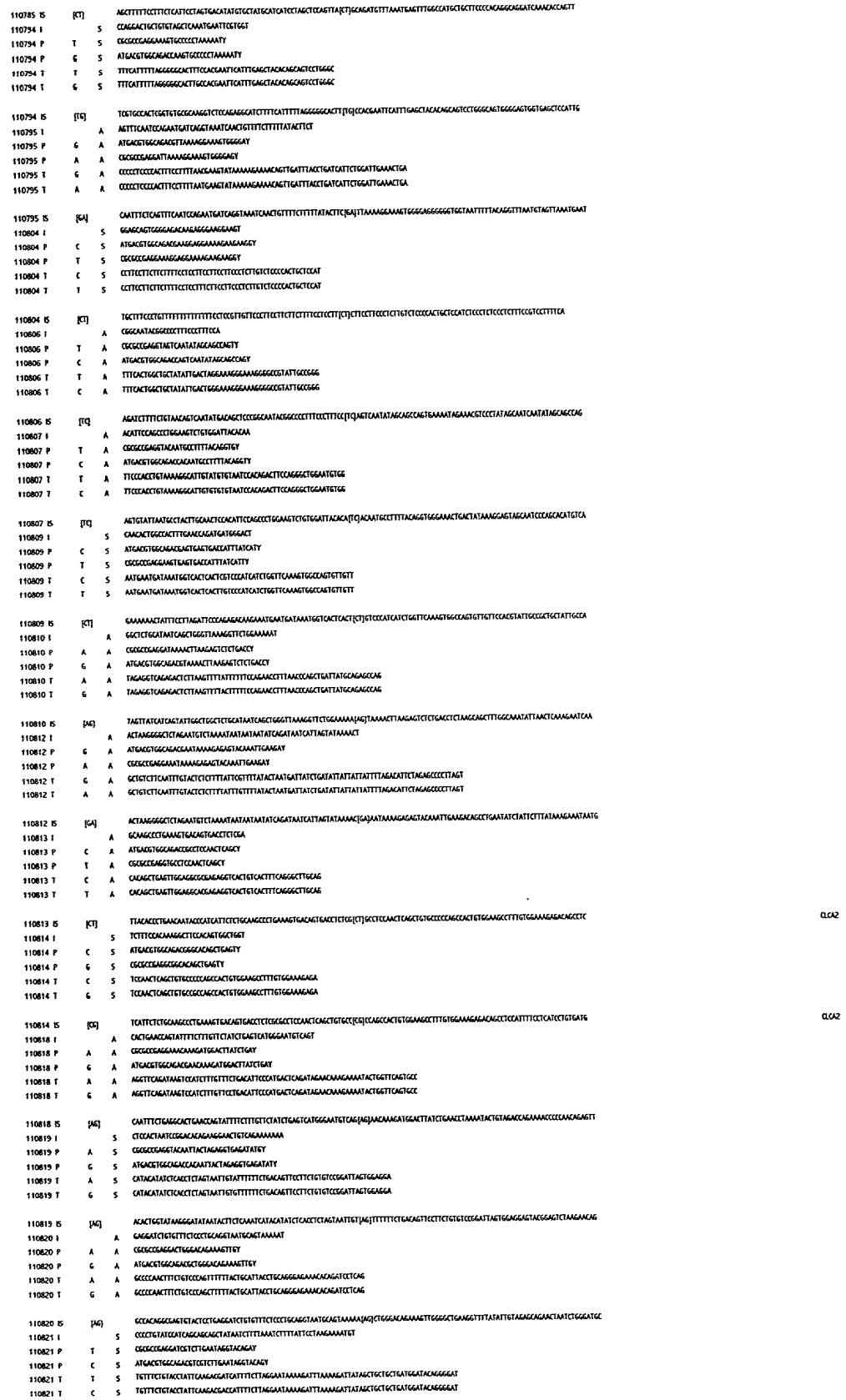
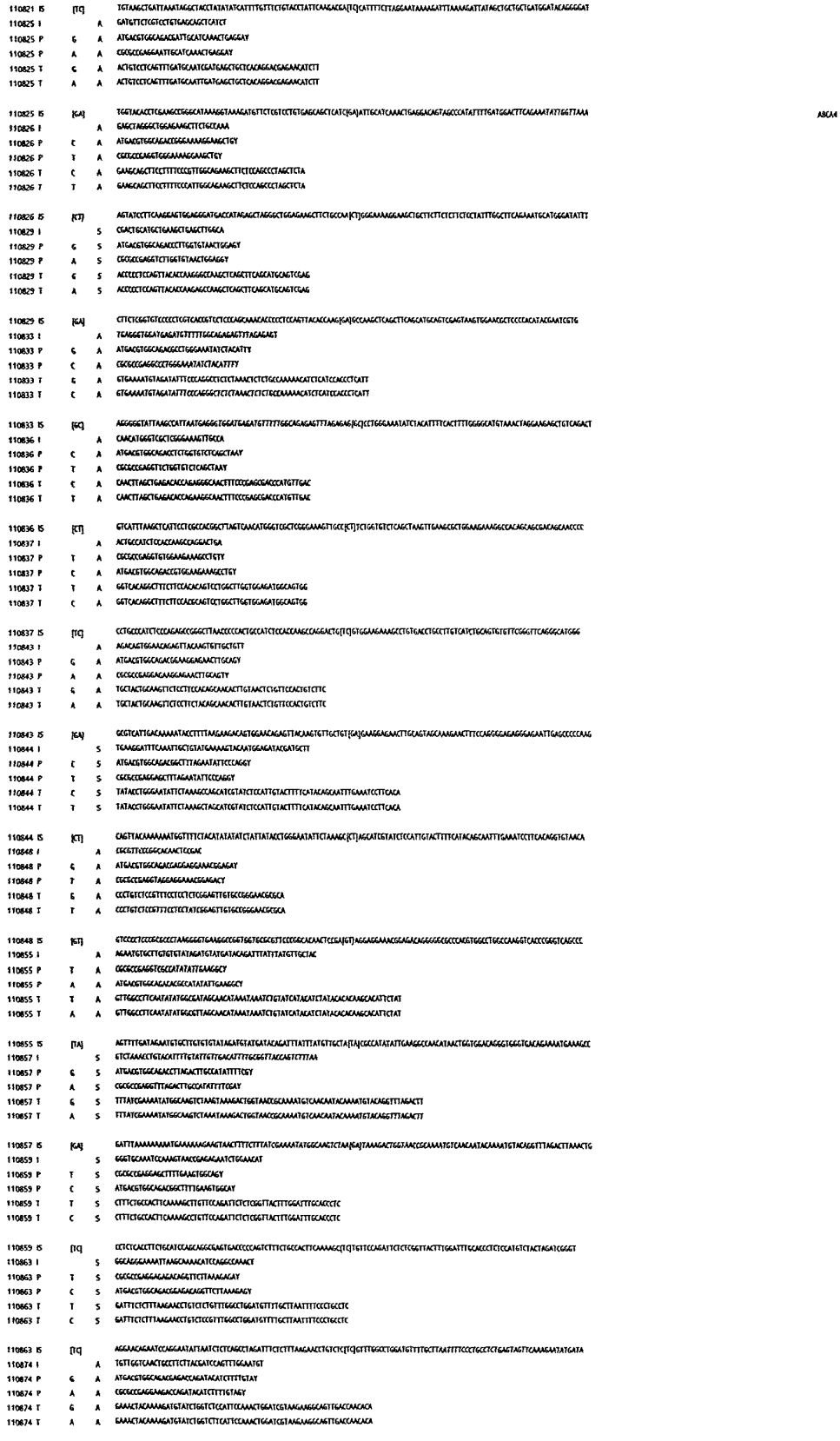


FIGURE 129G





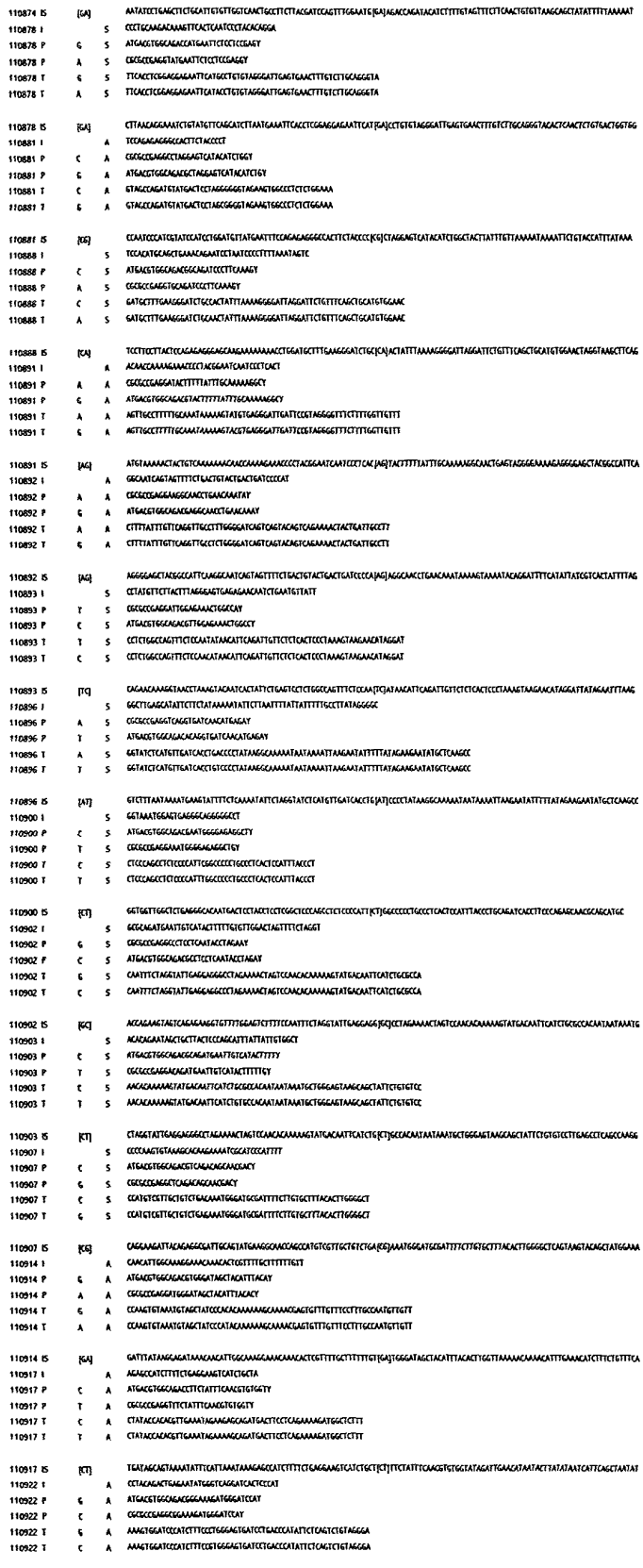


FIGURE 129G

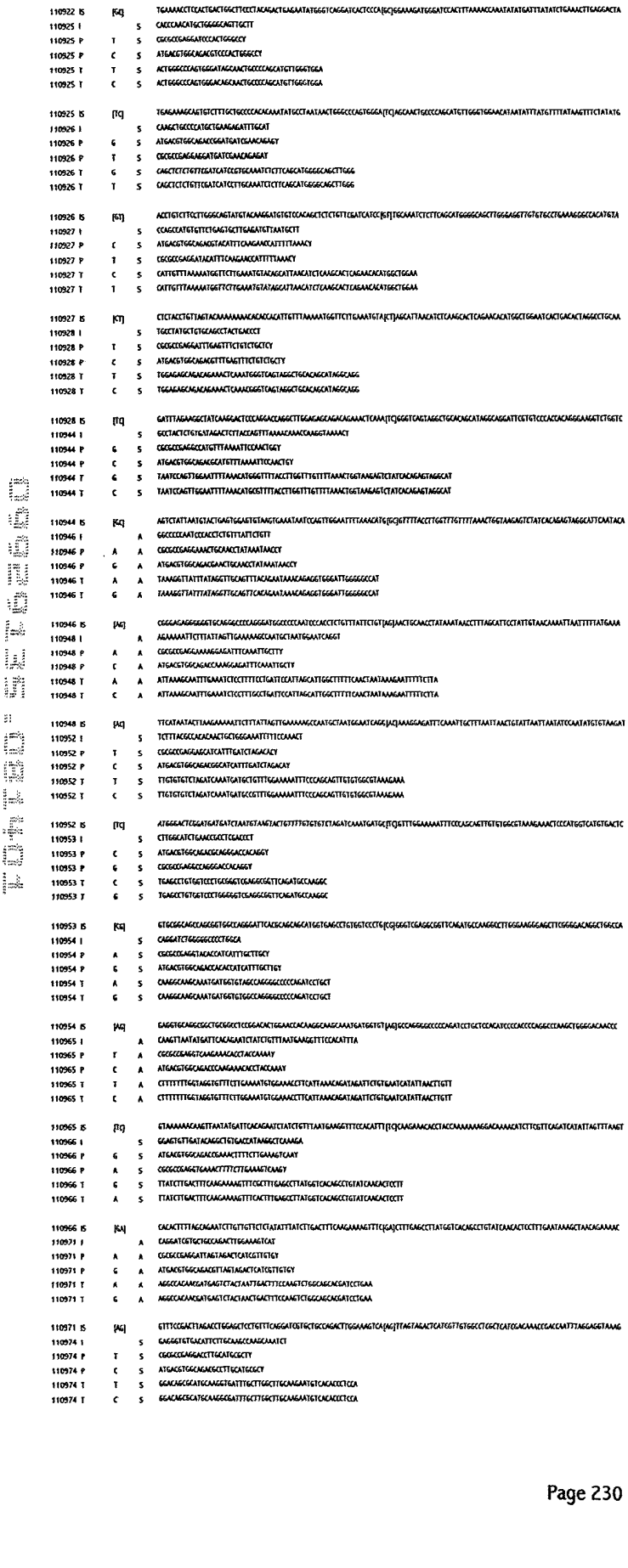
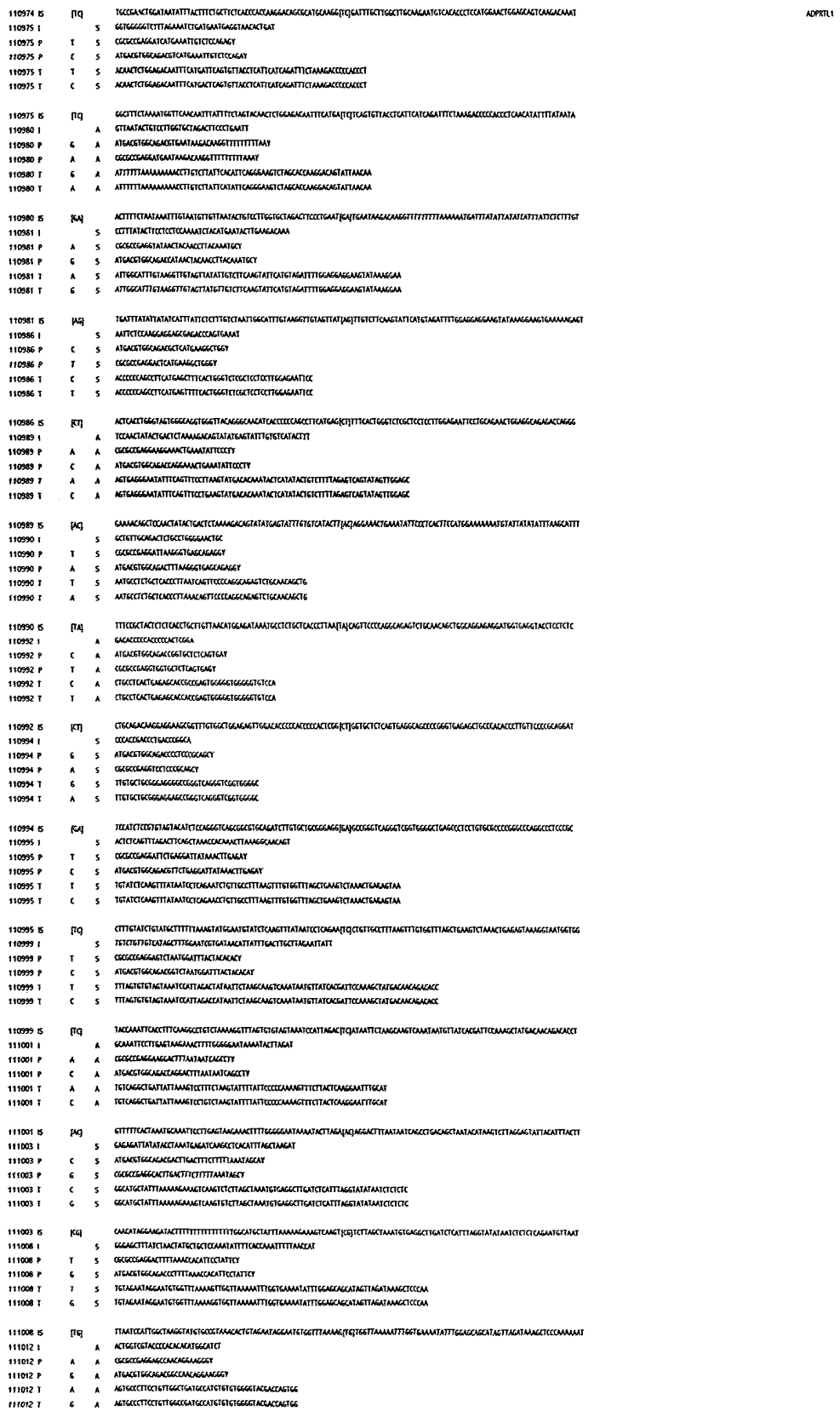


FIGURE 129G



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FIGURE 129G

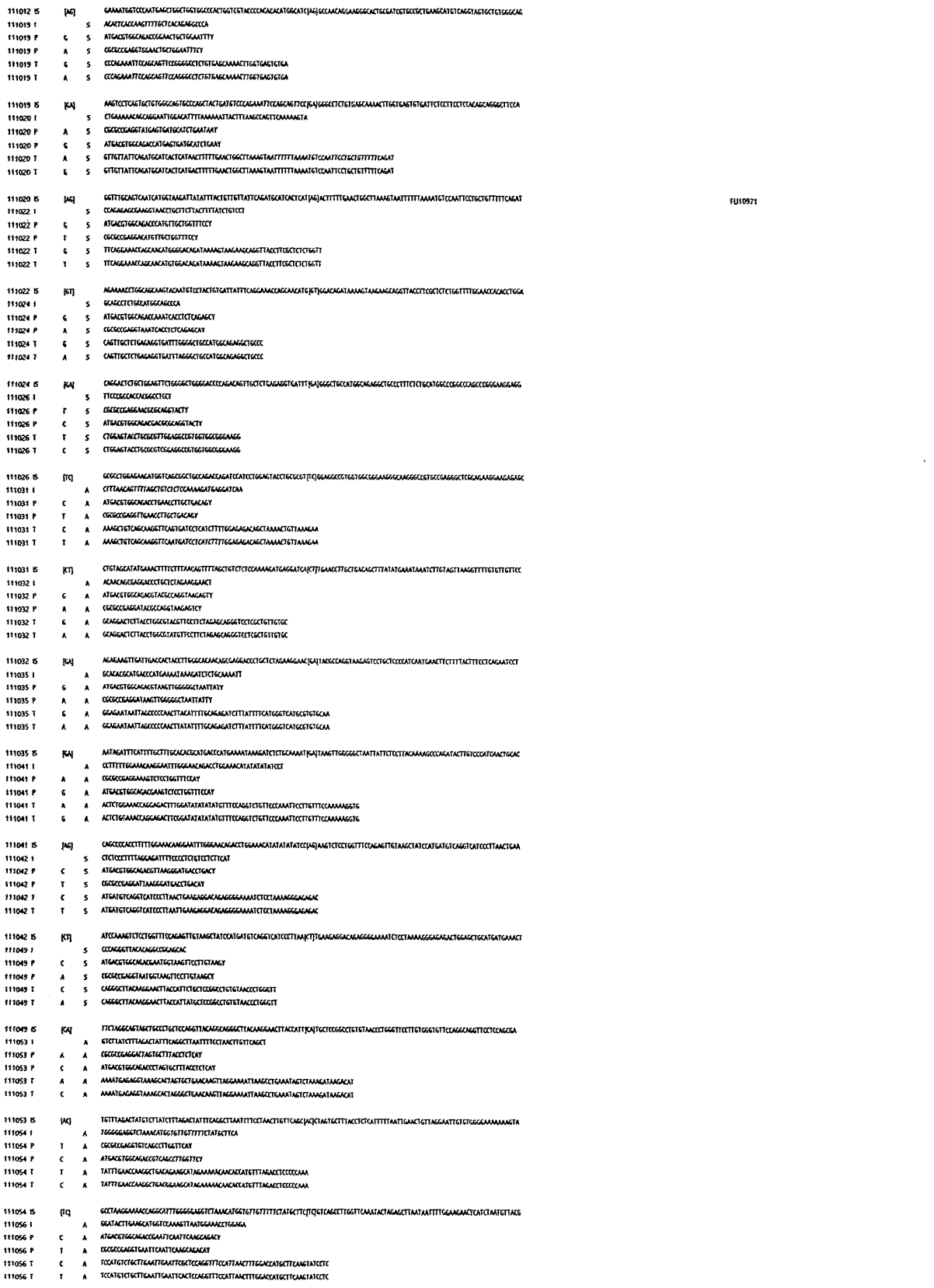


FIGURE 129G

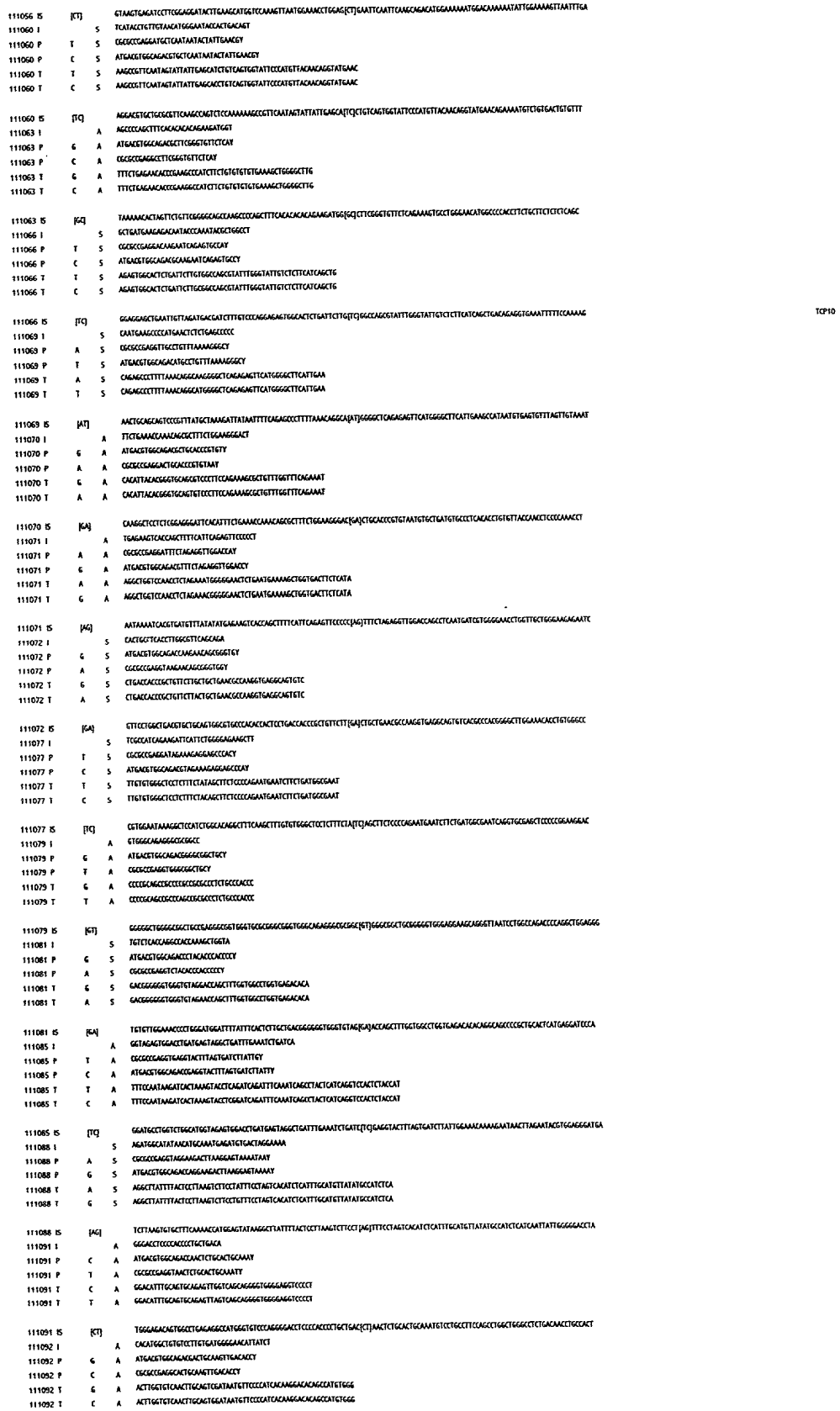


FIGURE 129G

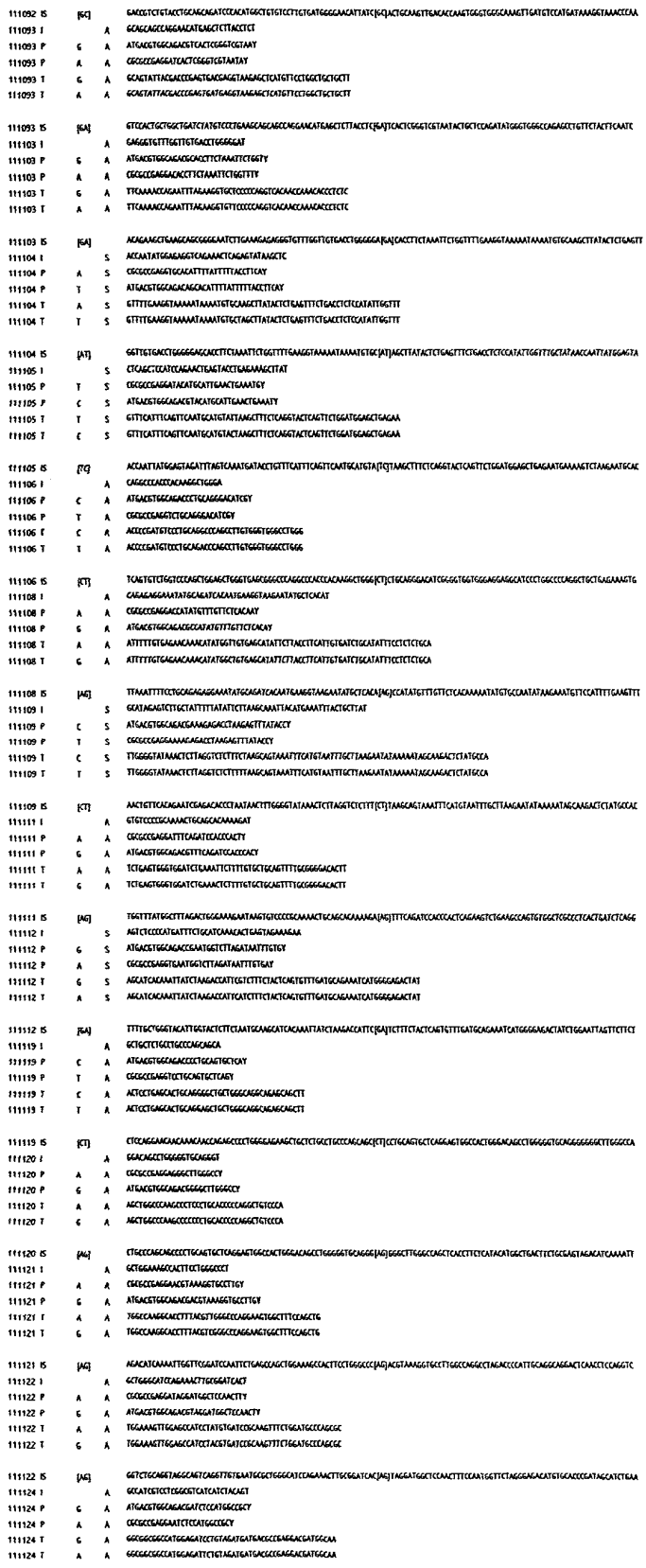


FIGURE 129G

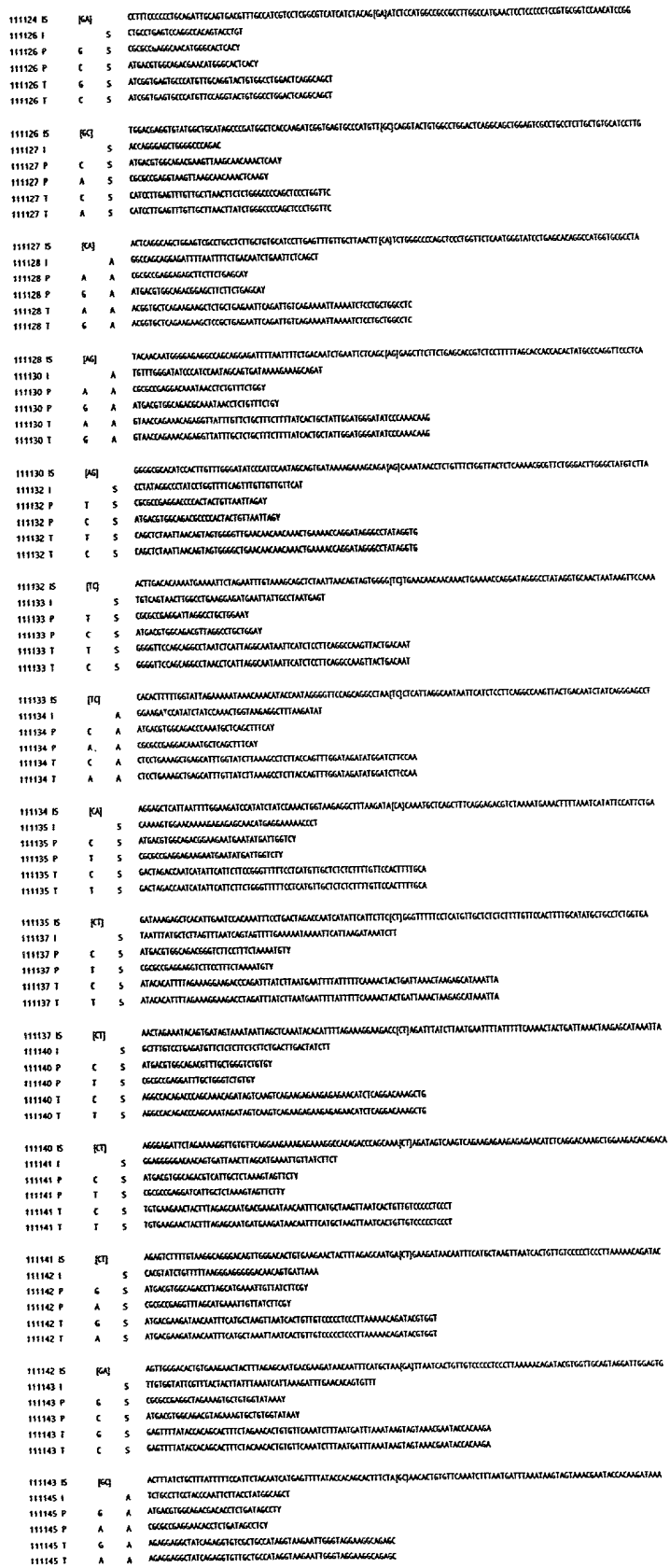


FIGURE 129G

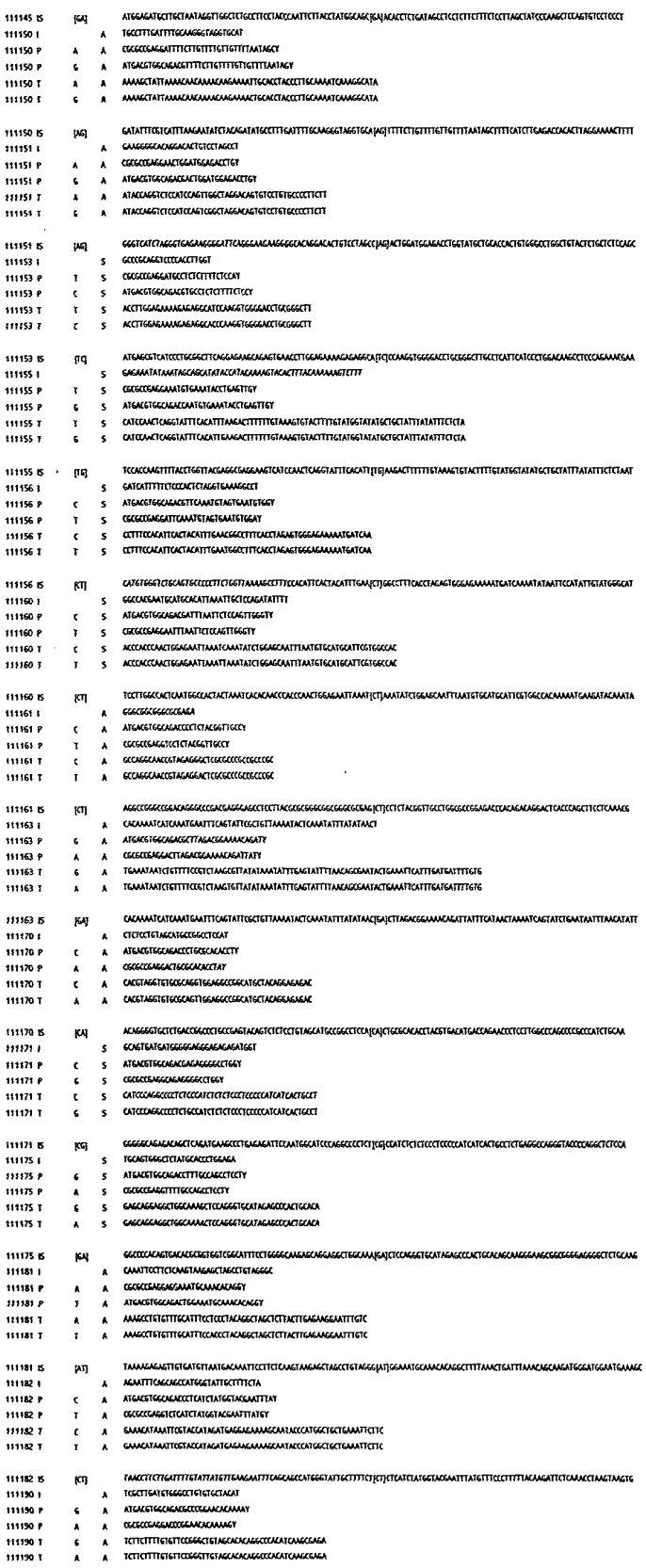
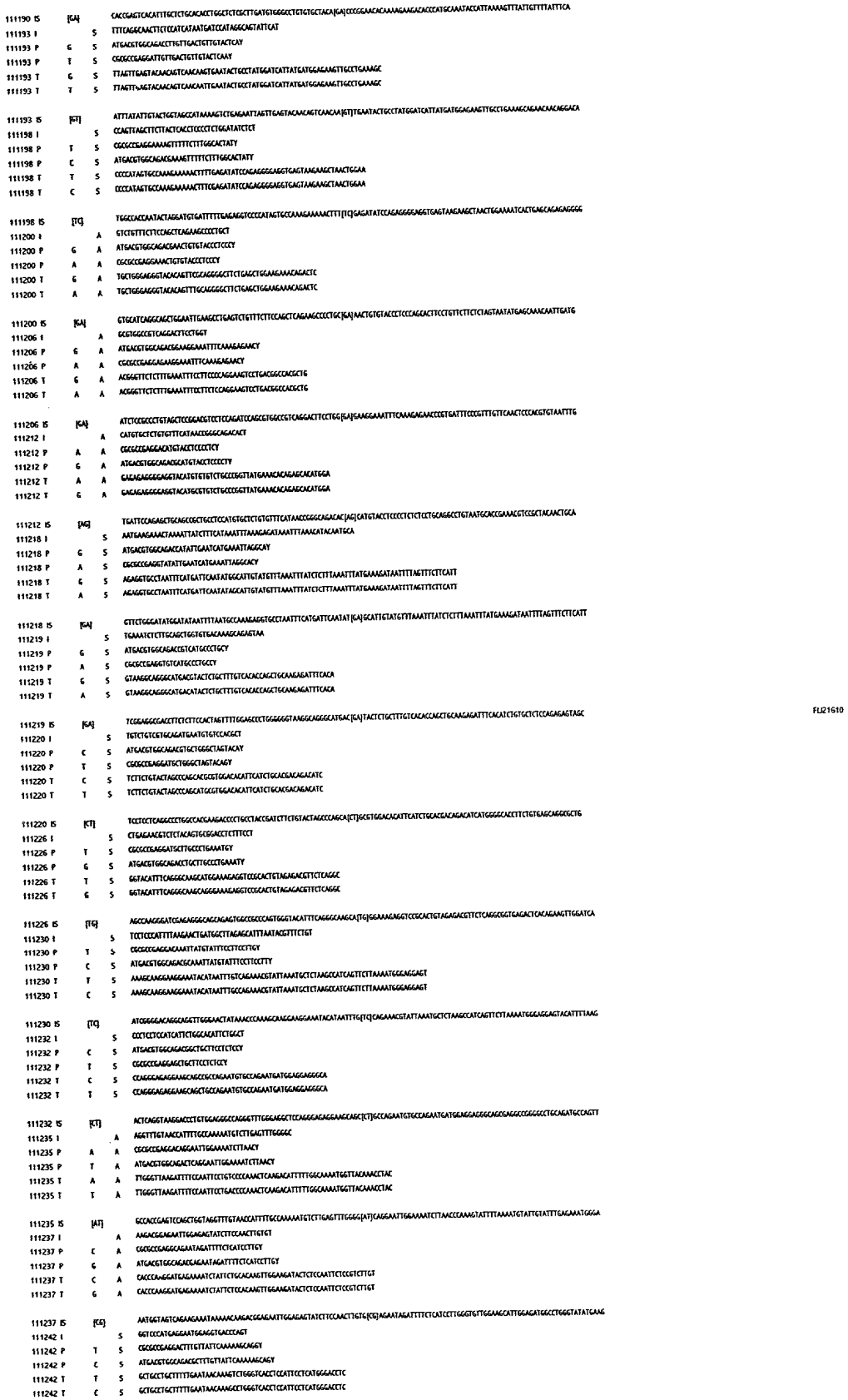


FIGURE 129G



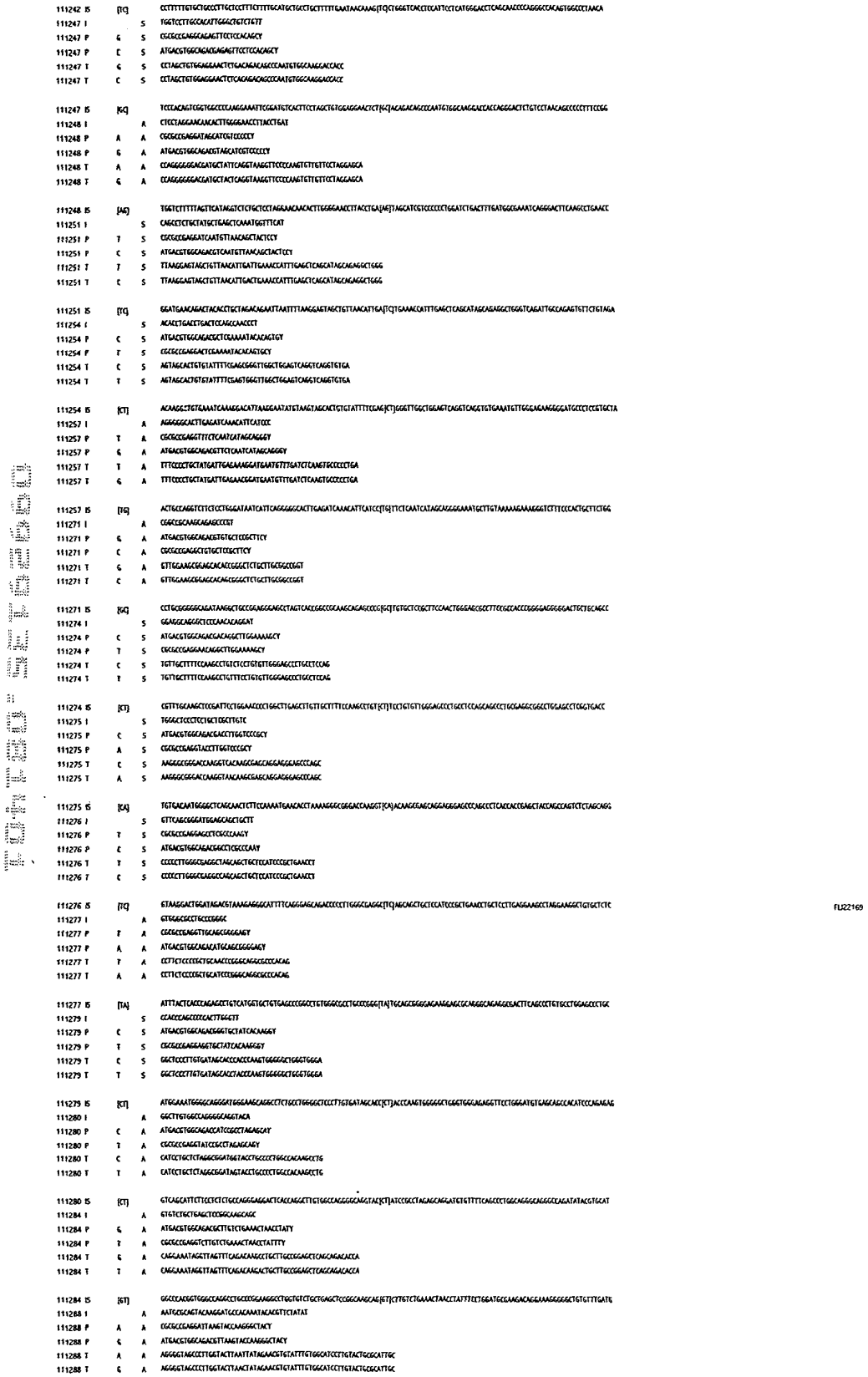


FIGURE 129G

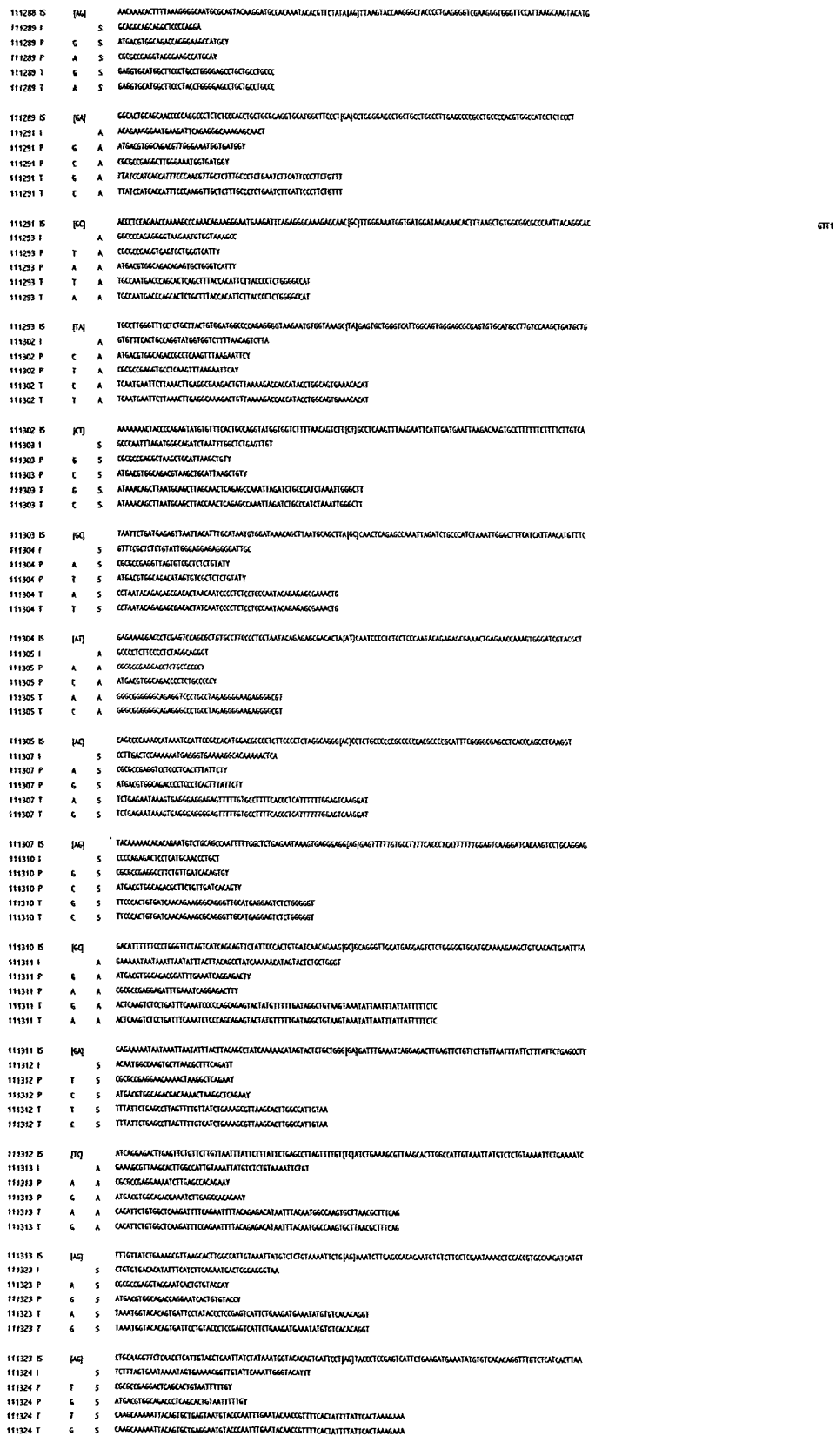


FIGURE 129G

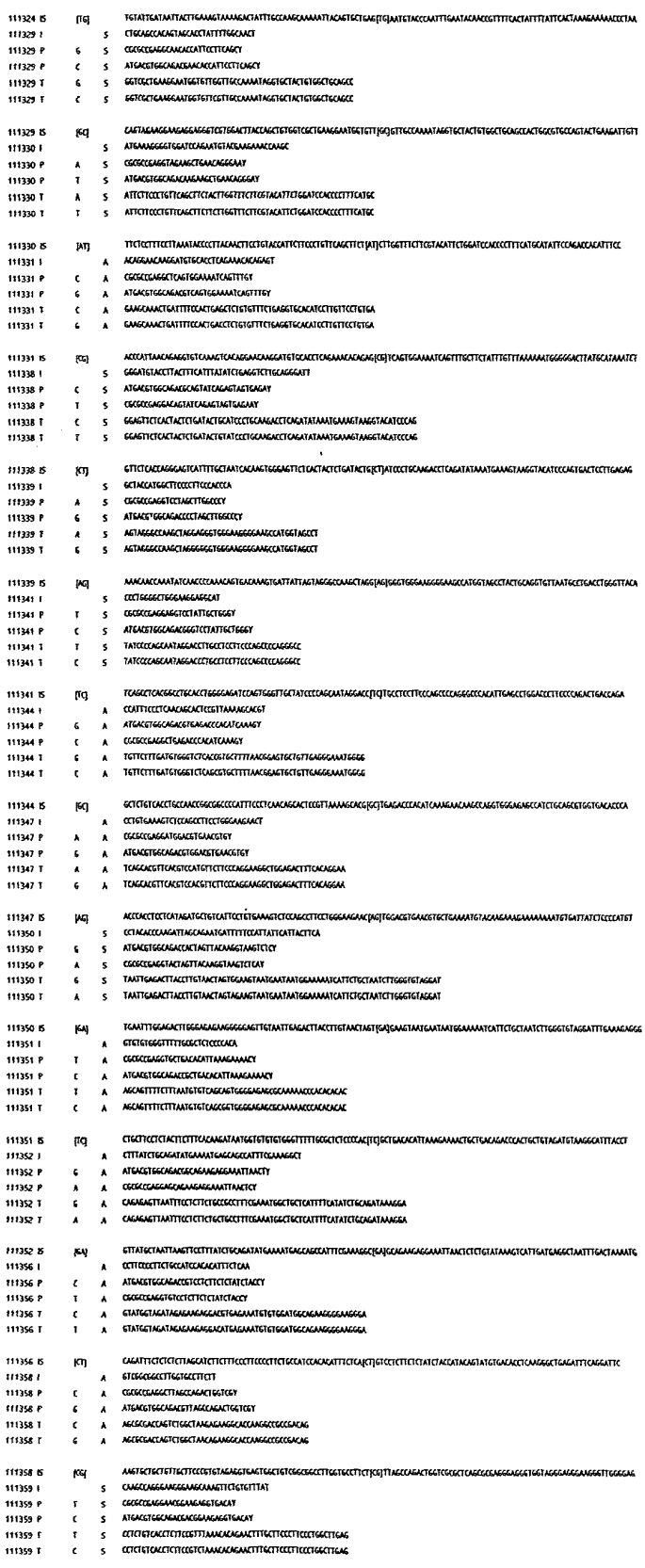


FIGURE 129G

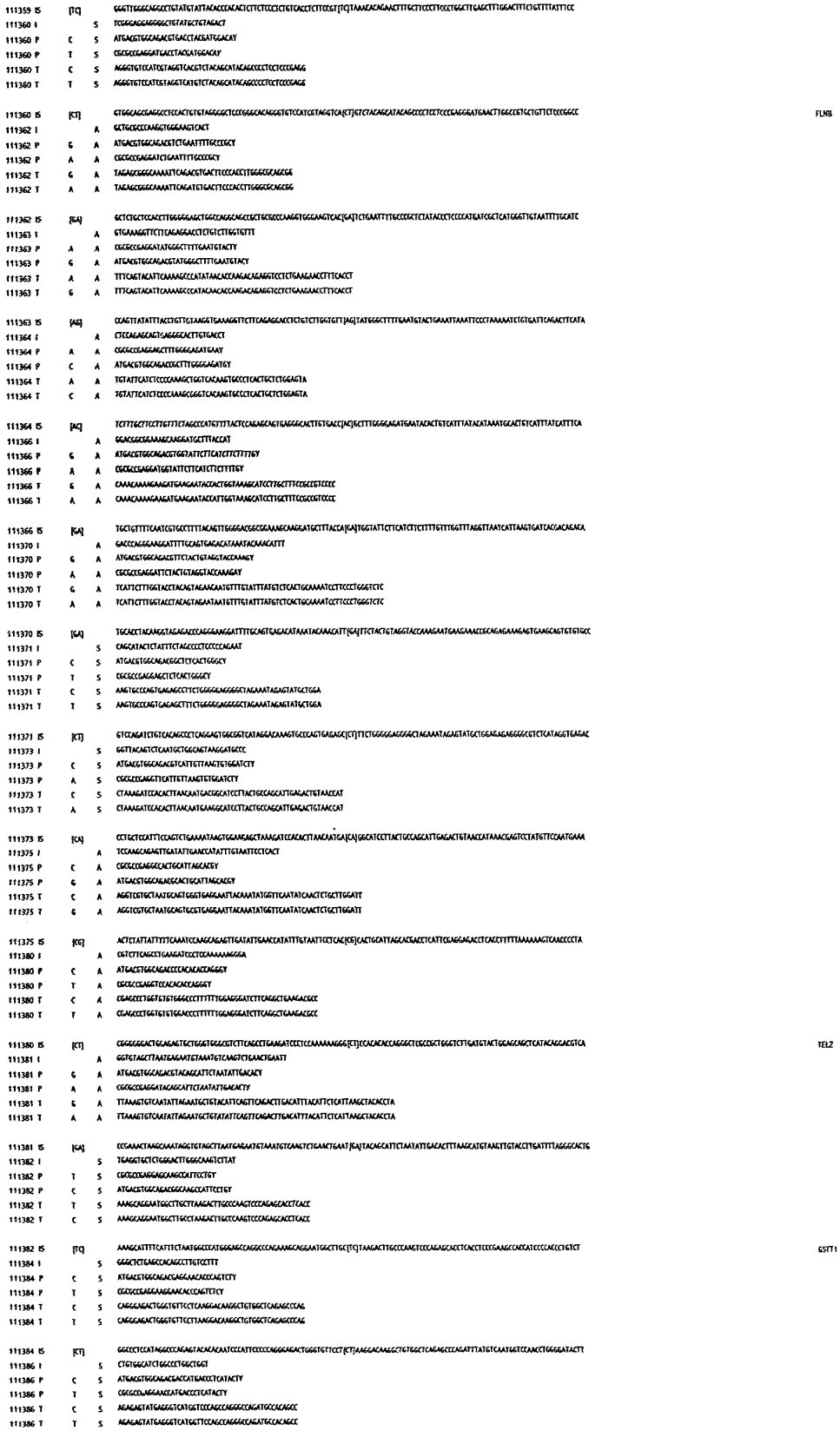
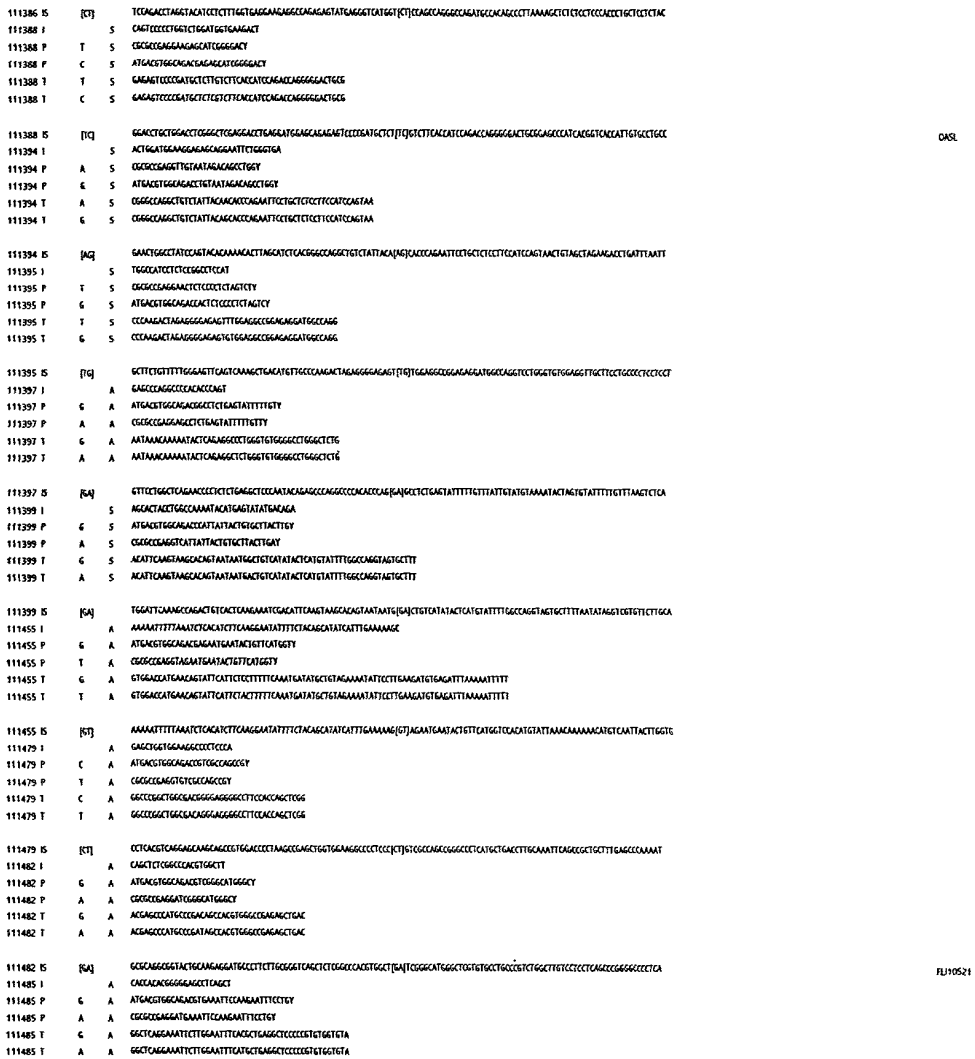

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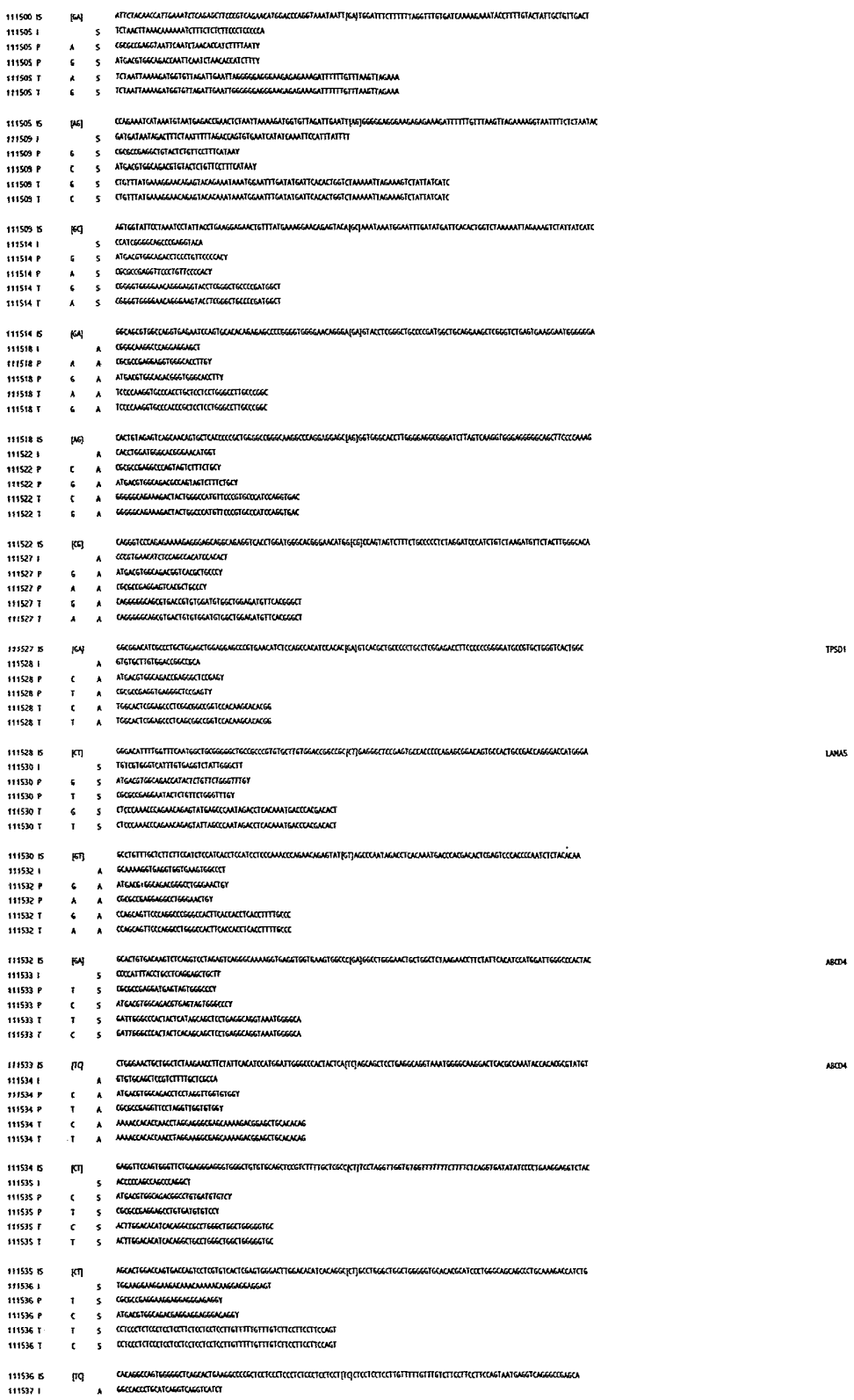
FIGURE 129G



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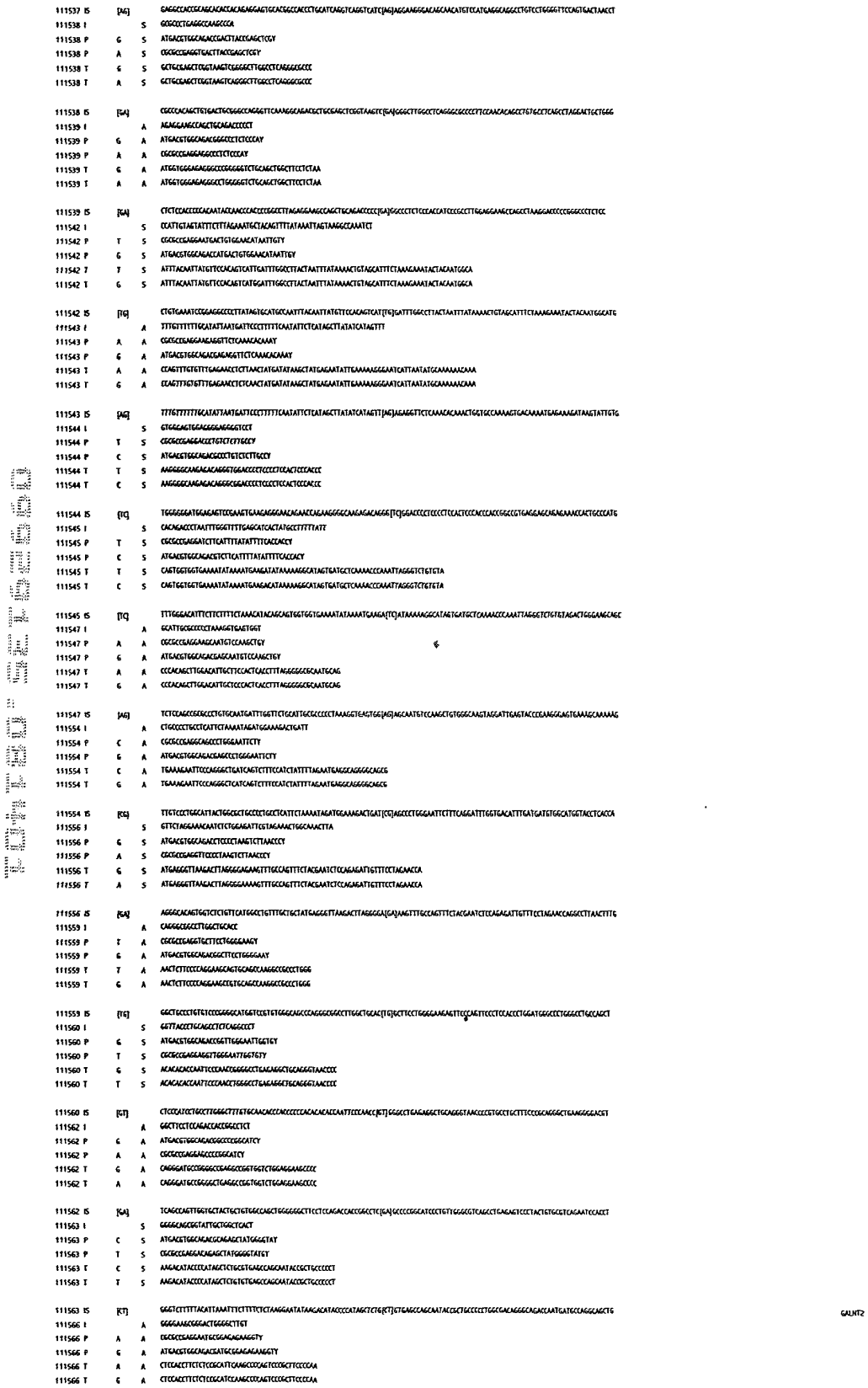
FLJ10521

Atty. Docket No.: 10466-1140P1 (1619.1)



Attorney Docket No. 10191-2001

FIGURE 129G



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111568 IS     [GT]      CCAGGTAGGCGTCCAGGAAGGAGCCAGGTGTAACCCGGCGGTCAGTGGAGCCTCAGTGAGG[GT]GTGTCCTGCGGAAAAGAGAAGGTGAGAACGCAGCCAGGACCAGGCAGGTTCCCTCTACAA
111572 I            A      CACCAAGGCTAAGAACGGGCACCTC
111572 P     G      A      ATGACGTGGCAGACGGCTGTGGTGAGTGGY
111572 P     T      A      CGCGCCGAGGTGCTGTGGTGAGTGGY
111572 T     G      A      GGCCCCACTCACACAGCAGGTGCCCGTTCTTGGCCTTGGTGAT
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111572 IS     [GT]      CACCATTGACTTCACACCCGGCTGGGAGCTGCTCATCACCAAGGCCAAGAACGGGCACCT[GT]GCTGTGGTGAGTGGGGCCTGCTTCCCGCTTATGGCCTGGCTGTGATAGCCAAGCCTTCC
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111575 P     C      A      ATGACGTGGCAGACCAGGGTGTGGAAGAACY
111575 P     T      A      CGCGCCGAGGTAGGGTGTGGAAGAACGY
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111587 T     T      A      TGGTAGTCGAAGAGGCCAAAACCATGACTGGTGCCAAAAGCCACGAGGCT

111587 IS     [CT]      TGTAACCGCTGTCACACTCCACACCGAGTGGAGCCTCGTGGCTTTTGGCACCAGTCATGG[CT]TTTGGCCTCTTCGACTACCAGCGCAAGAGCCTGTGCTGCCCAGGTGTGTGGGGTGGGGC
111588 I            S      CAGACCCATTGAAACCCTATCAAGACTTCATTATAGATGTAAGTATATT
111588 P     T      S      CGCGCCGAGGACTAGGCTTGGTCAGAAAY
111588 P     C      S      ATGACGTGGCAGAGCTAGGCTTGGTCAGAY
111588 T     T      S      CATATTTCTGACCAAGCCTAGTATATACTTACATCTATAATGAAGTCTTGATAGGGTTTCAATGGGTCTGAA
111588 T     C      S      CATATTTCTGACCAAGCCTAGCATATACTTACATCTATAATGAAGTCTTGATAGGGTTTCAATGGGTCTGAA

111588 IS     [TC]      TAGTTTTAATAAATTAATTCTAAATTCGTCAACGATACTTCATATTTCTGACCAAGCCTAG[TC]ATATACTTACATCTATAATGAAGTCTTGATAGGGTTTCAATGGGTCTGAACTATCTGTTG
111592 I            S      GCGGCTTCCGGGATCTGCCTGGT
111592 P     G      S      ATGACGTGGCAGACGGTTGCTTGTCTCTCY
111592 P     T      S      CGCGCCGAGGAGGTTGCTTTGTCTCTCY
111592 T     G      S      GAAGGAGAGACAAAGCAACCCCCAGGCAGATCCCGGAAGCCGCCC
111592 T     T      S      GAAGGAGAGACAAAGCAACCTCCAGGCAGATCCCGGAAGCCGCCC

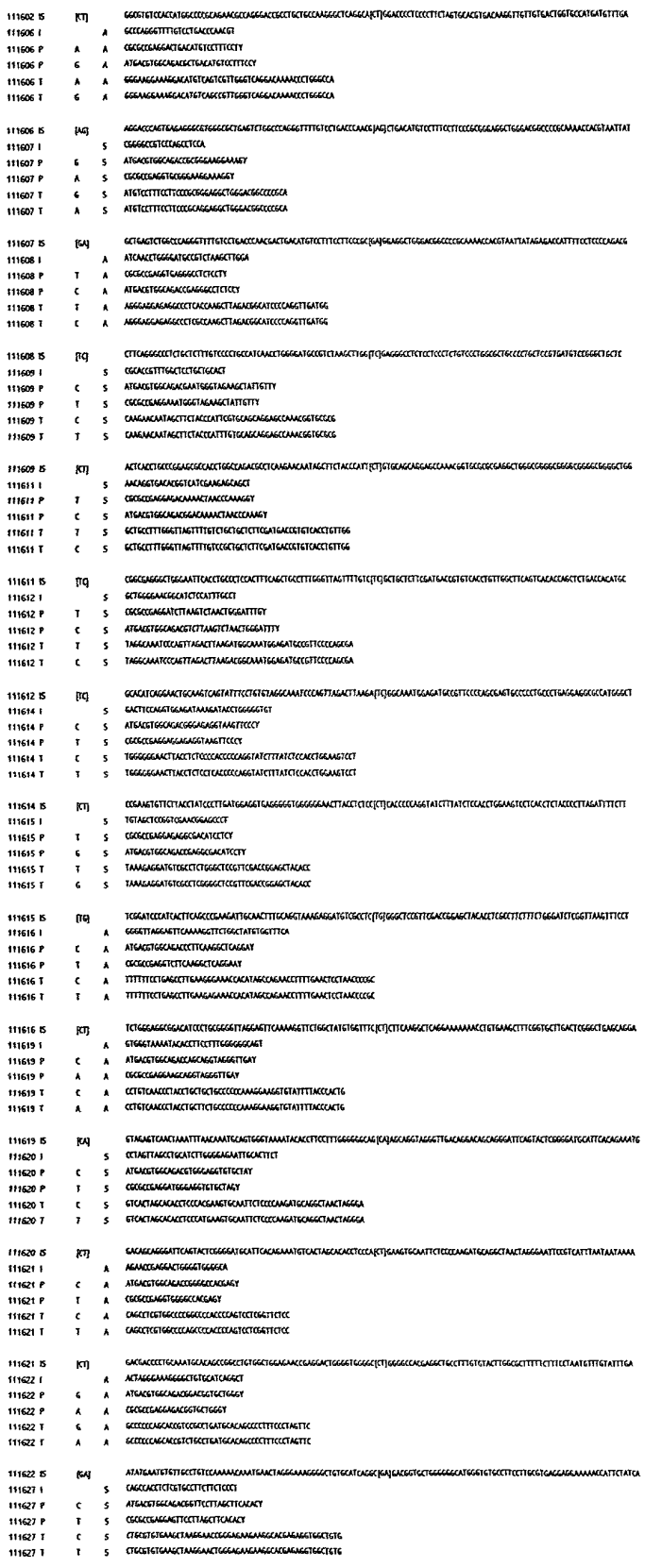
111592 IS     [GT]      GAACTAGCAGCGGAGACTAACAGGAAGAGCCGGCTCCGGCGAAGGAGACAACAAAGCAACC[GT]CCAGGCAGATCCCGGAAGCCGCCCTCTCCTTTCCGGGCGGCGCGCTGATTGAACGGTCCC
111593 I            A      CATCCCCAAATGCCCAGTCTCTGGCACT
111593 P     G      A      ATGACGTGGCAGACGGGTGATCTGGCTGTY
111593 P     A      A      CGCGCCGAGGAGGTGATCTGGCTGTCY
111593 T     G      A      CCAAGACAGCCAGATCACCGTGCCAGAGACTGGGCATTTGGGGATGGG
111593 T     A      A      CCAAGACAGCCAGATCACCTGTGCCAGAGACTGGGCATTTGGGGATGGG

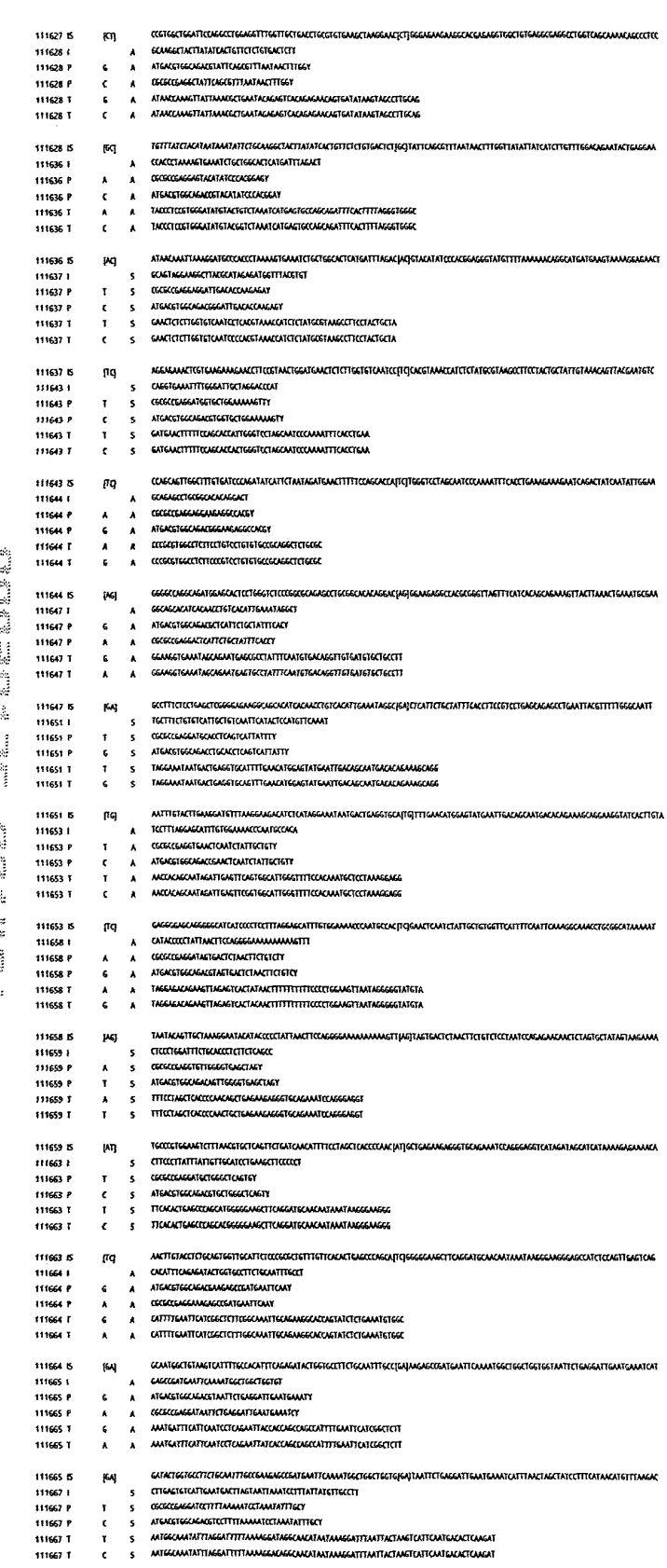
111593 IS     [GA]      AGCAATTCCGAAAGTTTCTATAGAAAGCCCAGCCCATCCCCAAATGCCCAGTCTCTGGCAC[GA]GGTGATCTGGCTGTCTTGGGTACTCAGGCCTTACTGGGATTTCCTTTAAGACCTCTGGGA
111598 I            A      GGAATCCACAGCAAGGAGCCTCATGCTAAATCAAAGT
111598 P     A      A      CGCGCCGAGGAAGTTACTAATAAGGTGTCACTCT
111598 P     G      A      ATGACGTGGCAGAGAGTTACTAATAAGGTGTCACTCT
111598 T     A      A      TTGTGAGTGACACCTTATTAGTAACTTCTTTGATTTAGCATGAGCCTCCTTGCTGTGGATTCCAA
111598 T     G      A      TTGTGAGTGACACCTTATTAGTAACTCCTTTGATTTAGCATGAGCCTCCTTGCTGTGGATTCCAA

111598 IS     [AG]      CTTTAAGAACAGATCATGCACATTGGAATCCACAGCAAGGAGGCTCATGCTAAATCAAAG[AG]AGTTACTAATAAGGTGTCACTCACAATATCTGGTAGGAGAGCTAAGTTTAACCGAGACTT
111599 I            A      GAGGCTCATGCTAAATCAAAGAAGTTACTAATAAGGTGTCACTCACAT
111599 P     A      A      CGCGCCGAGGATATCTGGTAGGAGAGCTAAGY
111599 P     G      A      ATGACGTGGCAGACGTATCYGGTAGGAGAGCTAAY
111599 T     A      A      TAAACTTAGCTCCTCCTACCAGATATTGTGAGTGACACCTTATTAGTAACTTCTTTGATTTAGCATGAGCCTCCT
111599 T     G      A      TAAACTTAGCTCCTCCTACCAGATACTGTGAGTGACACCTTATTAGTAACTTCTTTGATTTAGCATGAGCCTCCT

111599 IS     [AG]      AATCCACAGCAAGGAGGCTCATGCTAAATCAAAGAAGTTACTAATAAGGTGTCACTCACA[AG]TATCTGGTAGGAGAGCTAAGTTTAACCGAGACTTTAGTTTTAGGGTATAACCAAGGGAAG
111602 I            S      CACGTGCACTAGAAGGGGAGAGGGTCCT
111602 P     C      S      ATGACGTGGCAGACGTGCCTGAGCCCTTY
111602 P     T      S      CGCGCCGAGGATGCCTGAGCCCTTY
111602 T     C      S      TGCCAAGGGCTCAGGCACGGACCCCTCCCCTTCTAGTGCACGTGAC
111602 T     T      S      TGCCAAGGGCTCAGGCATGGACCCCTCCCCTTCTAGTGCACGTGAC
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FIGURE 129G





Attorney Docket No. 10578-2

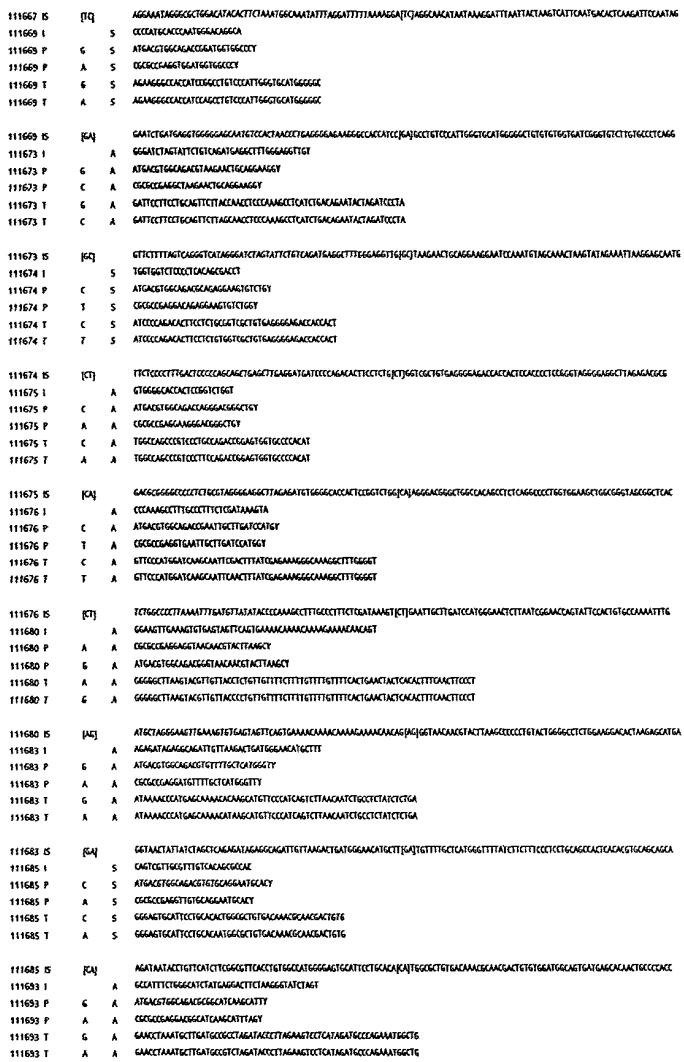


FIGURE 129G

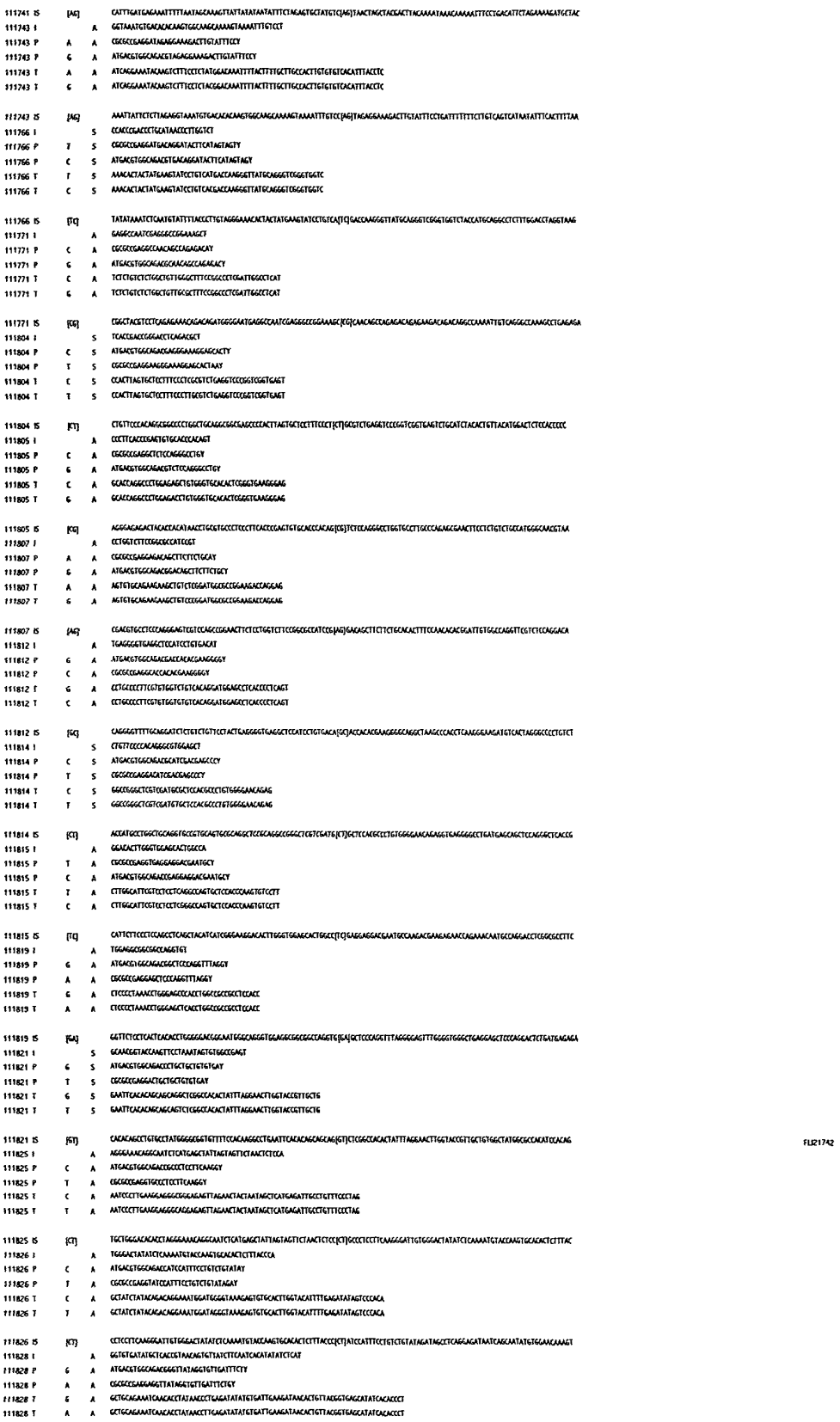
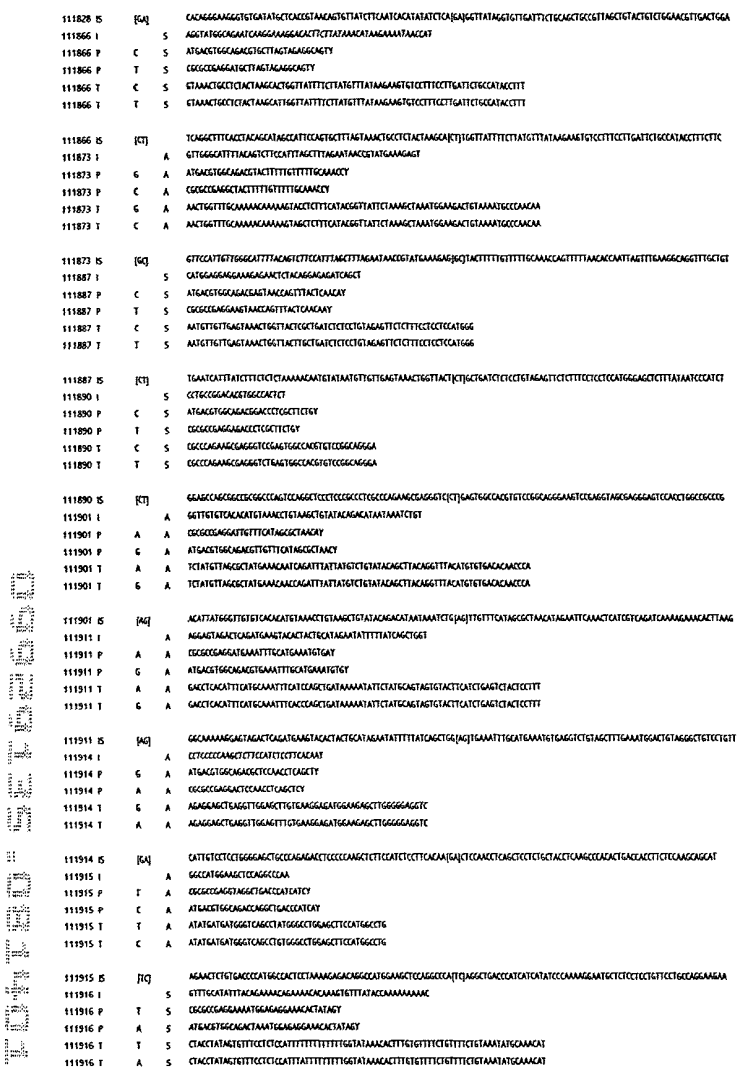


FIGURE 129G


111828 IS [GA] CACAGGGAAGGGTGTGATATGCTCACCGTAACAGTGTTATCTTCAATCACATATATCTCA[GA]GGTTATAGGTGTTGATTCTGCAGCTGCCGTTAGCTGTACTGTCTGGAACGTTGACTGGA
111866 I S AGGTATGGCAGAATCAAGGAAAGGACACTTCTTATAAACATAAGAAAATAACCAT
111866 P C S ATGACGTGGCAGACGTGCTTAGTAGAGGCAGTY
111866 P T S CGCGCCGAGGATGCTTAGTAGAGGCAGTY
111866 T C S GTAAACTGCCTCTACTAAGCACTGGTTATTTCTTATGTTTATAAGAAGTGTCCTTTCCTTGATTCTGCCATACCTTT
111866 T T S GTAAACTGCCTCTACTAAGCATTGGTTATTTCTTATGTTTATAAGAAGTGTCCTTTCCTTGATTCTGCCATACCTTT

111866 IS [CT] TCAGGCTTTCACCTACAGCATAGCCATTCCAGTGCTTTAGTAAACTGCCTCTACTAAGCA[CT]GGTTATTTCTTATGTTTATAAGAAGTGTCCTTTCCTTGATTCTGCCATACCTTTCTTC
111873 I A GTTGGGCATTTTACAGTCTTCCATTTAGCTTTAGAATAACCGTATGAAAGAGT
111873 P G A ATGACGTGGCAGACGTACTTTTGTTTTTGCAAACCY
111873 P C A CGCGCCGAGGCTACTTTTGTTTTTGCAAACCY
111873 T G A AACTGGTTTGCAAAACAAAAAGTACCTCTTTCATACGGTTATTCTAAAGCTAAATGGAAGACTGTAAAATGCCCAACAA
111873 T C A AACTGGTTTGCAAAACAAAAAGTAGCTCTTTCATACGGTTATTCTAAAGCTAAATGGAAGACTGTAAAATGCCCAACAA

111873 IS [GC] GTTCCATTGTTGGGGCATTTTACAGTCTTCCATTTAGCTTTAGAATAACCGTATGAAAGAG[GC]TACTTTTTGTTTTTGCAAACCAGTTTTAACACCAATTAGTTTGAAGGCAGGTTTGCTGT
111887 I S CATGGAGGAAGGAAAGAGAACTCTACAGGAAGAAGATCAGCT
111887 P C S ATGACGTGGCAGACGAGTAACCAGTTTACTCAACAY
111887 P T S CGCGCCGAGGAGAGTAACCAGTTTACTCAACAAY
111887 T C S AATGTTGTTGAGTAAACTGGTTACTCGCTGATCTCTCCTGTAGAGTTCTCTTTCCTCCTCCATGGG
111887 T T S AATGTTGTTGAGTAAACTGGTTACTTGCTGATCTCTCCTGTAGAGTTCTCTTTCCTCCTCCATGGG

111887 IS [CT] TGAATCATTTATCTTTCTCTCTAAAAACAATGTATAATAGTTGTTGAGTAAACTGGTTACT[CT]GCTGATCTCTCCTGTAGAGTTCTCTTTCCTCCTCCATGGGAGCTCTTTATAATCCCATCT
111890 I S CCTGCCGGACACGTGGCCACTCT
111890 P C S ATGACGTGGCAGACGGACCCTCGCTTCTGY
111890 P T S CGCGCCGAGGAGACCCTCGCTTCTGY
111890 T C S CGCCCAGAAGCGAGGGTCCGAGTGGCCACGTGTCCGGCAGGGA
111890 T T S CGCCCAGAAGCGAGGGTCTGAGTGGCCACGTGTCCGGCAGGGA

111890 IS [CT] GGAGCCAGCGGCCGCGGCCCAGTCCAGGCTCCCTCCCGCCCTCGCCCAGAAGCGAGGGTC[CT]GAGTGGCCACGTGTCCGGCAGGGAAGTCCGAGGTAGCGAGGGAGTCCACCTGGCCGCCCG
111901 I A GGTTGTGTCACACATGTAAACCTGTAAGCTGTATACAGACATAATAAATCTGT
111901 P A A CGCGCCGAGGAGTTGTTCATAGCGCTAACAY
111901 P G A ATGACGTGGCAGAGCGTTGTTTCATAGCGCTAACY
111901 T A A TCTATGTTAGCGCTATGAAACAATCAGATTTATTATGTCTGTATACAGCTTACAGGTTTACATGTGTGACACAACCA
111901 T G A TCTATGTTAGCGCTATGAAACAACCAGATTTATTATGTCTGTATACAGCTTACAGGTTTACATGTGTGACACAACCA

111901 IS [AG] ACATTATGGGTTGTGTCACACATGTAAACCTGTAAGCTGTATACAGACATAATAAATCTG[AG]TTGTTTCATAGCGCTAACATAGAATTCAAACTCATCGTCAGATCAAAAGAAACACTTAAG
111911 I A AGGAGTAGACTCAGATGAAGTACACTACTGCATAGAATATTTTTATCAGCTGGT
111911 P A A CGCGCCGAGGATGAAATTTCATGAAATGTGAY
111911 P G A ATGACGTGGCAGACGTGAAATTTGCATGAAATGTGY
111911 T A A GACCTCACATTTCATGCAAATTTCATCCAGCTGATAAAAATATTCTATGCAGTAGTGTACTTCATCTGAGTCTACTCCTTT
111911 T G A GACCTCACATTTCATGCAAATTTCACCCAGCTGATAAAAATATTCTATGCAGTAGTGTACTTCATCTGAGTCTACTCCTTT

111911 IS [AG] GGCAAAAAGCAGTAGACTCAGATGAAGTACACTACTGCATAGAATATTTTTATCAGCTGG[AG]TGAAATTTGCATGAAATGTGAGGTCTGTAGCTTTGAAATGGACTGTAGGGCTGTCCTGTT
111914 I A CCTCCCCCAAGCTCTTCCATCTCCTTCACAAT
111914 P G A ATGACGTGGCAGAGCGCTCCAACCTCAGCTY
111914 P A A CGCGCCGAGGACTCCAACCTCAGCTCY
111914 T G A AGAGGAGCTGAGGTTGGAGCTTGTGAAGGAGATGGAAGAGCTTGGGGGAGGTC
111914 T A A AGAGGAGCTGAGGTTGGAGTTTGTGAAGGAGATGGAAGAGCTTGGGGGAGGTC

111914 IS [GA] CATTGTCCTCCTGGGGAGCTGCCCAGAGAACCTCCCCCAAGCTCTTCCATCTCCTTCACAA[GA]CTCCAACCTCAGCTCCTCTGCTACCTCAAGCCCACACTGACCACCTTCTCCAAGCAGCAT
111915 I A GGCCATGGAAGCTCCAGGCCCAA
111915 P T A CGCGCCGAGGTAGGCTGACCCATCATCY
111915 P C A ATGACGTGGCAGACCAGGCTGACCCATCAY
111915 T T A ATATGATGATGGGTCAGCCTATGGGCCTGGAGCTTCCATGGCCTG
111915 T C A ATATGATGATGGGTCAGCCTGTGGGCCTGGAGCTTCCATGGCCTG

111915 IS [TC] AGAACTCTGTGACCCCATGGCCACTCCTAAAAGAGACAGGCCATGGAAGCTCCAGGCCCA[TC]AGGCTGACCCATCATCATATCCCAAAAGGAATGCTCTCCTCCTGTTCCTGCCAGGAAGAA
111916 I S GTTTGCATATTTACAGAAAACAGAAAACACAAAGTGTTTATACCAAAAAAAAAC
111916 P T S CGCGCCGAGGAAAATGGAAGAGGAAACACTATAGY
111916 P A S ATGACGTGGCAGACTAAATGGAAGAGGAAACACTATAGY
111916 T T S CTACCTATAGTGTTTCCTCTCCATTTTTTTTTTTTTGGTATAAACACTTTGTGTTTTCTGTTTTCTGTAAATATGCAAACAT
111916 T A S CTACCTATAGTGTTTCCTCTCCATTTATTTTTTTTTGGTATAAACACTTTGTGTTTTCTGTTTTCTGTAAATATGCAAACAT

111916 IS [TA] CCATGAAACAGTACTTTTGGGTGTCCCTCCCAACCTACCTATAGTGTTTCCTCTCCATTT[TA]TTTTTTTTTGGTATAAACACTTTGTGTTTTCTGTTTTCTGTAAATATGCAAACATAGTTT
111924 I A AACCCTCCTCAGAGGAAAGTTCCAGAGAAGCCT
111924 P A A CGCGCCGAGGAGAGACCAGGAAGGCY
111924 P G A ATGACGTGGCAGACGGAGACCAGGAAGGCY
111924 T A A TGGTGCCTTCCTGGTCTCTGGCTTCTCTGGAACTTTCCTCTGAGCAGGGTTGC
111924 T G A TGGTGCCTTCCTGGTCTCCGGCTTCTCTGGAACTTTCCTCTGAGCAGGGTTGC

111924 IS [AG] AGAGAACATCATCAAAGTGGCAATCAGCAACCTCCTCAGAGGAAAGTTCCAGAGAAGCC[AG]GAGACCAGCAGGAAGGCACAGCTGGCCCCATGCTTTTGCCGCAGACATACGGAGCGTAAGTG
111931 I A GGTTACCTTGTTGCCCAGGTATCAAAGCGTGGT
111931 P G A ATGACGTGGCAGACGTGACGTTTACCGCTTCY
111931 P A A CGCGCCGAGGATGACGTTTACCGCTTCY
111931 T G A AGCAGAAGCGGTAAACGTCACCCACGCTTTGAATACCTGGGCAACAGGTAACCAA
111931 T A A AGCAGAAGCGGTAAACGTCATCCACGCTTTGAATACCTGGGCAACAGGTAACCAA

111931 IS [GA] GCTATGACCTCAGGGCACATGTGTGGTTGGTTACCTTGTTGCCCAGGTATTCAAAGCGTGG[GA]TGACGTTACCGCTTCTCGTGCCCTCCTTGAATAGACTGAATTCCATAGGGCCATCGTGA
111932 I S TGACTCTGCACTGCCTTTTCCACTACATCAA
111932 P G S ATGACGTGGCAGACGGATGGCCCTATGGAY
111932 P A S CGCGCCGAGGTGATGGCCCTATGGAATY
111932 T G S CTGAATTCCATAGGGCCATCGTGATGTAGTGGAAAAGGCAGTGCAGAGTCAGA
111932 T A S CTGAATTCCATAGGGCCATCATGATGTAGTGGAAAAGGCAGTGCAGAGTCAGA

111932 IS [GA] TGGGTGACGTTTACCGCTTCTGCTGCCCTCGTTGAATAGACTGAATTCCATAGGGCCATC[GA]TGATGTAGTGGAAAAGGCAGTGCAGAGTCAGAATTTAGACTTCATCTCTGCCACTTAGGA
111937 I A CAGCCTGATGTCTCAGGATTGGCTGTCCTGT
111937 P A A CGCGCCGAGGAGGAAAACACGGGGY
111937 P G A ATGACGTGGCAGACGGGAAGACACGGGGY
111937 T A A GATGCCCCGTGTCTTCCTCAGGACAGCCAATCCTGAGACATCAGGCTGAA
111937 T G A GATGCCCCGTGTCTTCCCCAGGACAGCCAATCCTGAGACATCAGGCTGAA

111937 IS [AG] GATGGGAAGGGCGTGCGCCGTGTGGTTTTCAGCCTGATGTCTCAGGATTGGCTGTCCTG[AG]GGAAGACACGGGGCATCACTGCCTGGTCTGTATGTCCTCCCTACCACTGTGGGCACAGGA
111940 I A CCTCTGGTATCTGGTCAGGGCTCAAGAAGT
111940 P C A CGCGCCGAGGCTCTGGGGACATCCCY
111940 P G A ATGACGTGGCAGACGTCTGGGGACATCCCY
111940 T C A GCCAGGGATGTCCCCAGAGCTCTTGACCCCTGACCAGATACCAGAGCAA
111940 T G A GCCAGGGATGTCCCCAGACCTTCTTGACCCCTGACCAGATACCAGAGCAA

FIGURE 129G

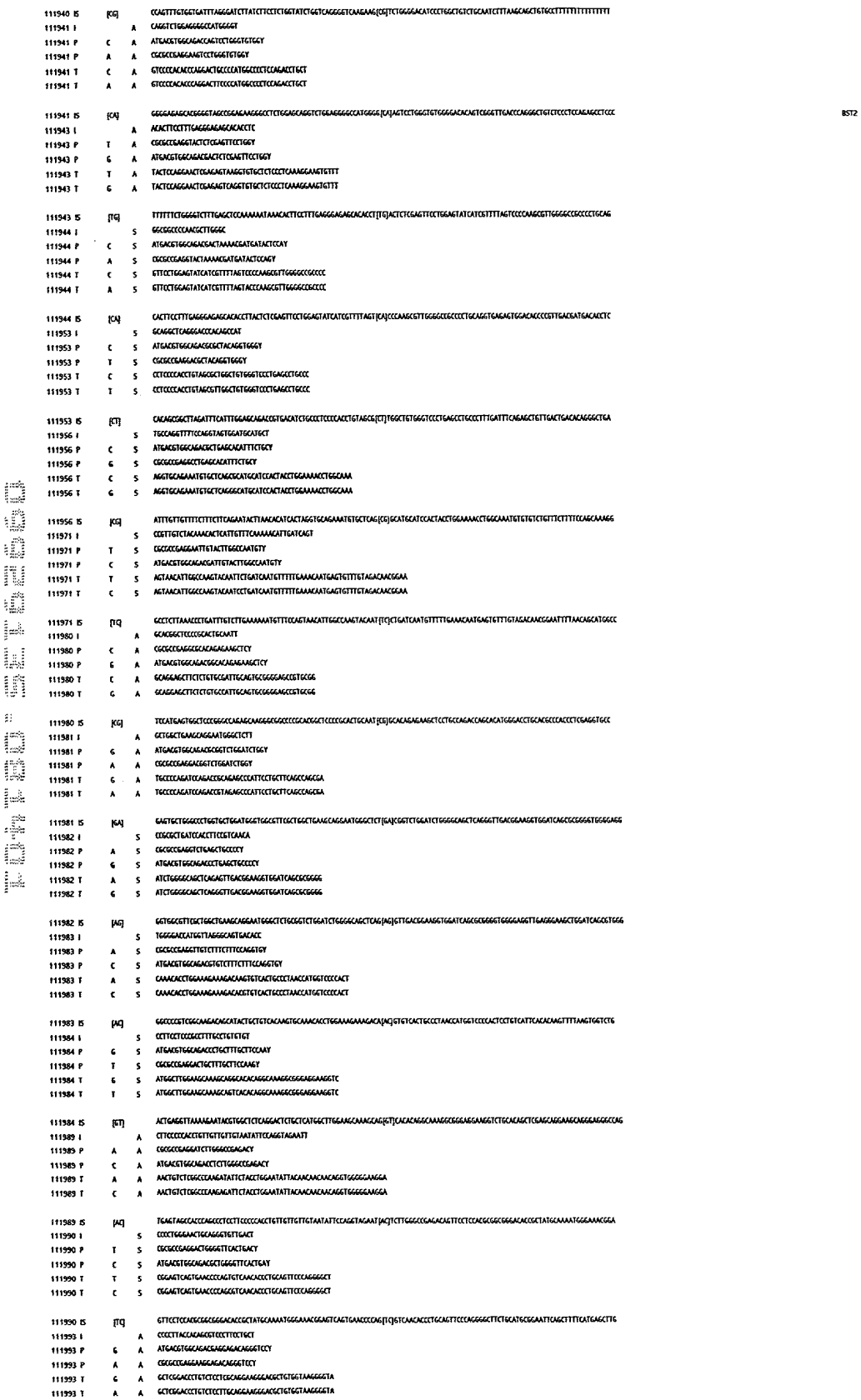
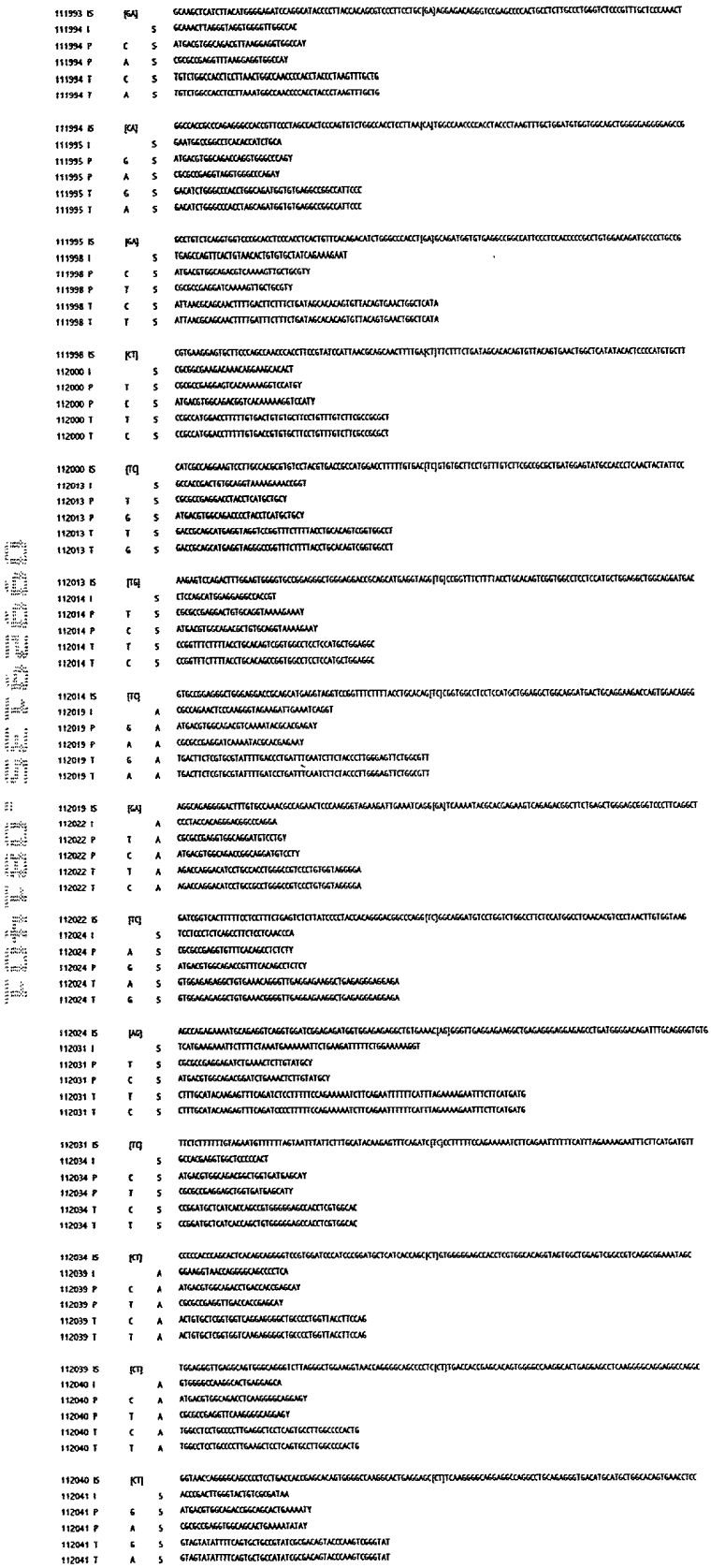
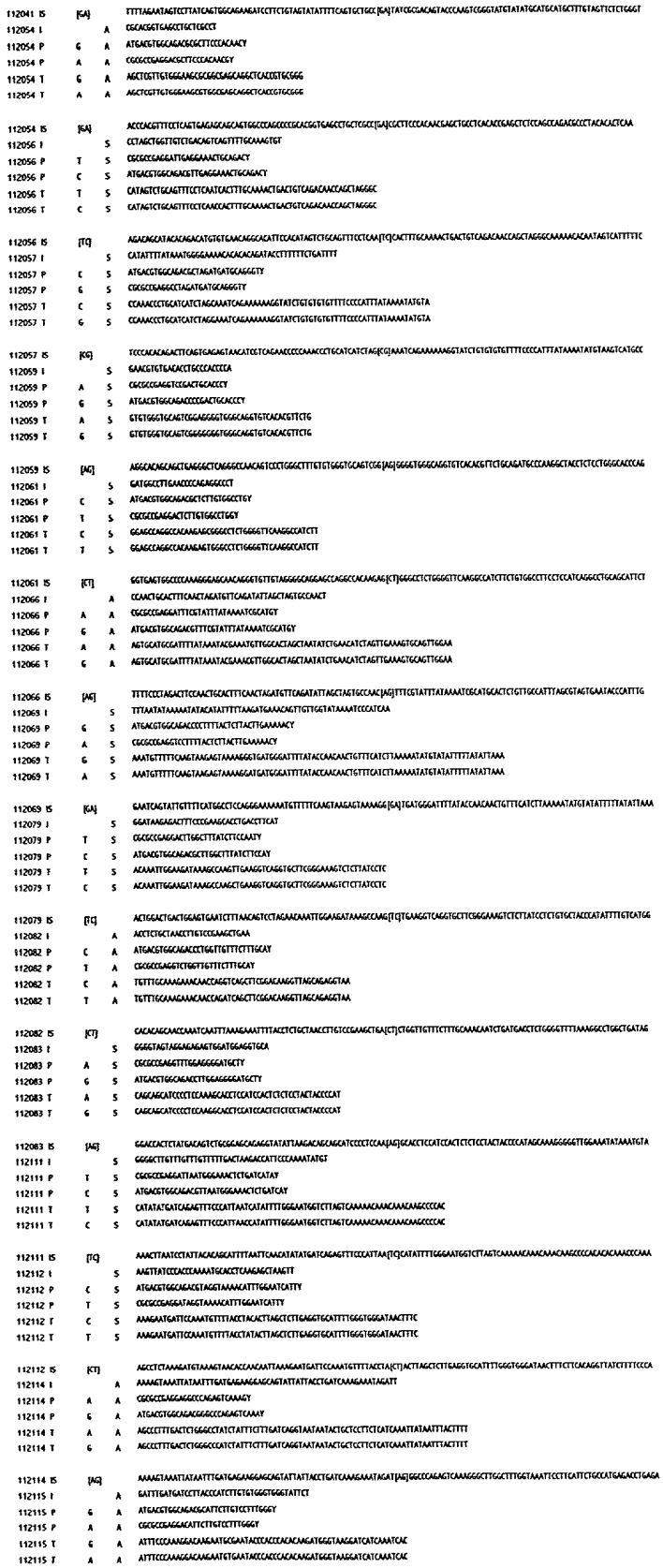
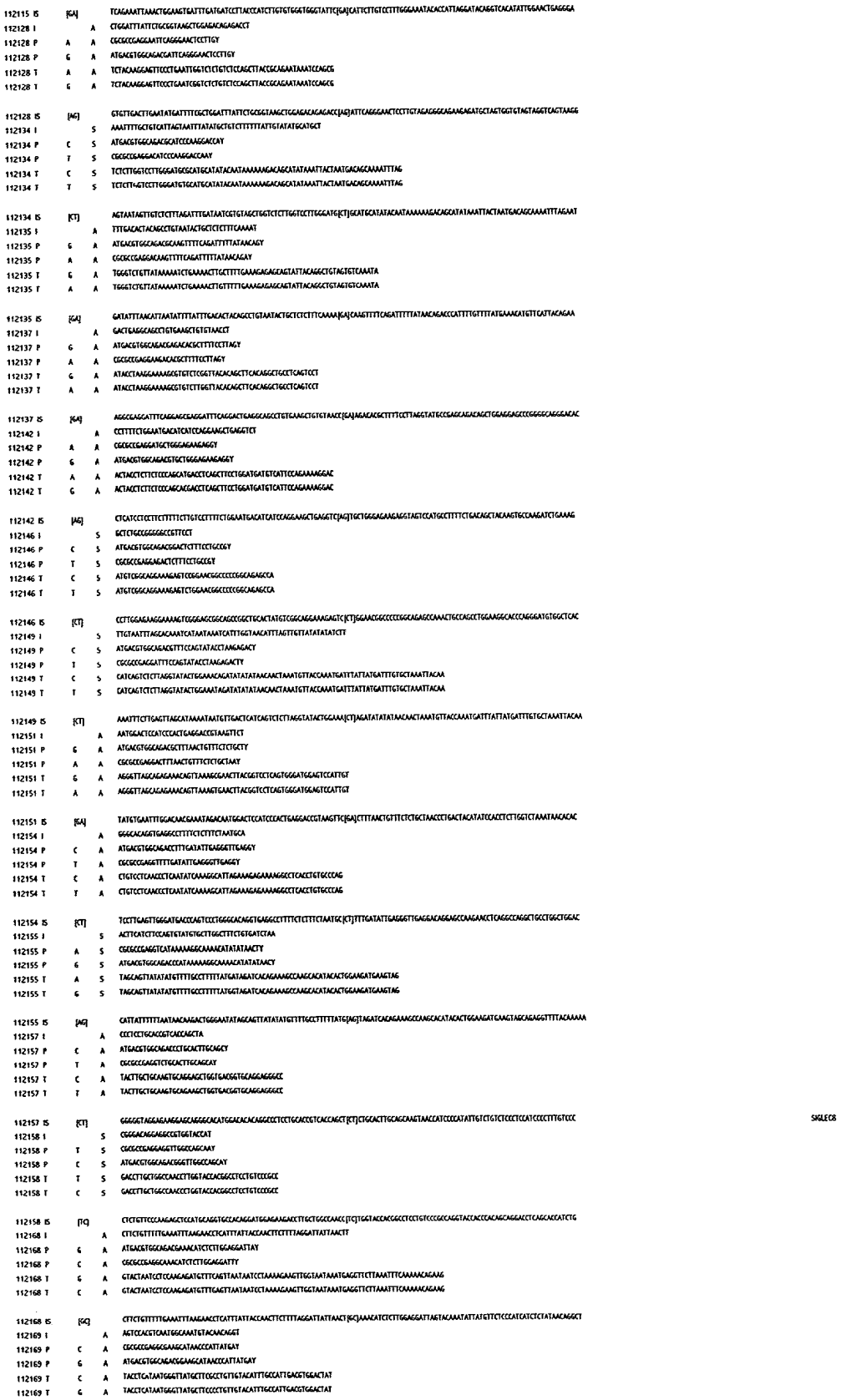


FIGURE 129G



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112115 IS [GA] TCAGAAATTAAACTGGAAGTGATTTGATGATCCTTACCCATCTTGTGTGGGTGGGTATTC[GA]CATTCTTGTCCTTTGGGAAATACACCATTAGGATACAGGTCACATATTGGAACTGAGGGA
112128 I A CTGGATTTATTCTGCGGTAAGCTGGAGACAGAGACCT
112128 P A A CGCGCCGAGGAATTCAGGGAACTCCTTGY
112128 P G A ATGACGTGGCAGACGATTCAGGGAACTCCTTGY
112128 T A A TCTACAAGGAGTTCCCTGAATTGGTCTCTGTCTCCAGCTTACCGCAGAATAAATCCAGCG
112128 T G A TCTACAAGGAGTTCCCTGAATCGGTCTCTGTCTCCAGCTTACCGCAGAATAAATCCAGCG

112128 IS [AG] GTGTTGACTTGAATATGATTTTCGCTGGATTTATTCTGCGGTAAGCTGGAGACAGACAGACC[AG]ATTCAGGGAACTCCTTGTAGAGGGCAGAAGAGATGCTAGTGGTGTAGTAGGTCAGTAAGG
112134 I S AAATTTTGCTGTCATTAGTAATTTATATGCTGTCTTTTTTATTGTATATGCATGCT
112134 P C S ATGACGTGGCAGACGCATCCCAAGGACCAY
112134 P T S CGCGCCGAGGACATCCCAAGGACCAAY
112134 T C S TCTCTTGGTCCTTGGGATGCGCATGCATATACAATAAAAAAGACAGCATATAAATTACTAATGACAGCAAAATTTAG
112134 T T S TCTCTTAGTCCTTGGGATGTGCATGCATATACAATAAAAAAGACAGCATATAAATTACTAATGACAGCAAAATTTAG

112134 IS [CT] AGTAATAGTTGTCTCTTTAGATTTGATAATCGTGTAGCTGGTCTCTTGGTCCTTGGGATG[CT]GCATGCATATACAATAAAAAAGACAGCATATAAATTACTAATGACAGCAAAATTTAGAAT
112135 I A TTTGACACTACAGCCTGTAATACTGCTCTCTTTCAAAAT
112135 P G A ATGACGTGGCAGACGCAAGTTTTCAGATTTTTATAACAGY
112135 P A A CGCGCCGAGGACAAGTTTTCAGATTTTTATAACAGY
112135 T G A TGGGTCTGTTATAAAAATCTGAAAACTTGCTTTTGAAAGAGAGCAGTATTACAGGCTGTAGTGTCAAATA
112135 T A A TGGGTCTGTTATAAAAATCTGAAAACTTGTTTTTGAAAGAGAGCAGTATTACAGGCTGTAGTGTCAAATA

112135 IS [GA] GATATTTAACATTAATATTTTATTTGACACTACAGCCTGTAATACTGCTCTCTTTCAAAA[GA]CAAGTTTTCAGATTTTTATAACAGACCCATTTTGTTTTATGAAACATGTTCATTACAGAA
112137 I A GACTGAGGCAGCCTGTGAAGCTGTGTAACCT
112137 P G A ATGACGTGGCAGACGAGACACGCTTTTCCTTAGY
112137 P A A CGCGCCGAGGAAGACACGCTTTTCCTTAGY
112137 T G A ATACCTAAGGAAAAGGGTGTCTCGGTTACACAGCTTCACAGGCTGCCTCAGTCCT
112137 T A A ATACCTAAGGAAAAGGGTGTCTTGGTTACACAGCTTCACAGGCTGCCTCAGTCCT

112137 IS [GA] AGGCGAGGATTTCAGGAGCGAGGATTTCAGGACTGAGGCAGCCTGTGAAGCTGTGTAACC[GA]AGACACGCTTTTCCTTAGGTATGCCGAGCAGACAGCAGCTGGAGGAGCCCGGGGCAGGGACAC
112142 I A CCTTTTCTGGAATGACATCATCCAGGAAGCTGAGGTCT
112142 P A A CGCGCCGAGGATGCTGCGGAGAAGAGGY
112142 P G A ATGACGTGGCAGACGTGCTGGGAGAAGAGGY
112142 T A A ACTACCTCTTCTCCCAGCATGACCTCAGCTTCCTGGATGATGTCATTCCAGAAAGGAC
112142 T G A ACTACCTCTTCTCCCAGCACGACCTCAGCTTCCTGGATGATGTCATTCCAGAAAGGAC

112142 IS [AG] CTCATCCTCCTTCTTTTCTTGTCCTTTTCTGGAATGACATCATCCAGGAAGCTGAGGTC[AG]TGCTGGGAGAAGAGGTAGTCCATGCCTTTTCTGACAGCTACAAGTGCCAAGATCTGAAAG
112146 I S GCTCTGCCGCGGGGCCGTTCCT
112146 P C S ATGACGTGGCAGACGGACTCTTTCCTGCCGY
112146 P T S CGCGCCGAGGAGACTCTTTCCTGCCGY
112146 T C S ATGTCGGCAGCAAAGAGTCCGGAACGGCCCCCGGCAGAGCCA
112146 T T S ATGTCGGCAGCAAAGAGTCTGGAACGGCCCCCGGCAGAGCCA

112146 IS [CT] CCTTGGAGAAGGAAAAGTGGGGAGCGGCAGCCGGCTGCACTATGTCGGCAGGAAAGAGTC[CT]GGAACGGCCCCCGGCAGAGCCAAACTGCCAGCCTGGAAGGCACCCAGGGATGTGGCTCAC
112149 I S TTGTAATTTAGCACAAATCATAATAAATCATTTGGTAACATTTAGTTGTTATATATATCTT
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112149 IS [CT] AAATTTCTTGAGTTAGCATAAAATAATGTTGACTCATCAGTCTCTTAGGTATACTGGAAA[CT]AGATATATATAACAACTAAATGTTACCAAATGATTTATTATGATTTGTGCTAAATTACAA
112151 I A AATGGACTCCATCCACTGAGGACCGTAAGTTCT
112151 P G A ATGACGTGGCAGACGCTTAACTGTTTCTCTGCTY
112151 P A A CGCGCCGAGGACTTTAACTGTTTCTCTGCTAAY
112151 T G A AGGGTTAGCAGAGAAACAGTTAAAGTGAACTTACGGTCCTCAGTGGGATGGAGTCCATTGT
112151 T A A AGGGTTAGCAGAGAAACAGTTAAAGTGAACTTACGGTCCTCAGTGGGATGGAGTCCATTGT

112151 IS [GA] TATGTGAATTTGGACAACGAAATAGACAATGGACTCCATCCCACTGAGGACCGTAAGTTC[GA]CTTTAACTGTTCTCTGCTAACCCTGACTACATATCCACCTCTTGGTCTAAATAACACAC
112154 I A GGGCACAGGTGAGGCCTTTCTCTTTCTAATGCA
112154 P C A ATGACGTGGCAGACCTTTGATATTGAGGGTTGAGGY
112154 P T A CGCGCCGAGGTTTTGATATTGAGGGTTGAGGY
112154 T C A CTGTCCTCAACCCTCAATATCAAAGGCATTAGAAAGAGAAAAGGCCTCACCTGTGCCCAG
112154 T T A CTGTCCTCAACCCTCAATATCAAAGCATTAGAAAGAGAAAAGGCCTCACCTGTGCCCAG

112154 IS [CT] TCCTTGAGTTGGGATGACCCAGTCCCTGGGGACAGGTGAGGCCTTTTCTCTTTCTAATGC[CT]TTTGATATTGAGGGTTGAGGACAGGAGCCAAGAACCTCAGCCCAGGCTGCCTGGCTGGAC
112155 I S ACTTCATCTTCCAGTGTATGTGCTTGGCTTTCTGTGATCTAA
112155 P A S CGCGCCGAGGTCATAAAAAGCAAAACATATATAACTY
112155 P G S ATGACGTGGCAGACCCATAAAAAGCAAAACATATATAACY
112155 T A S TAGCAGTTATATATGTTTTGCCTTTTTATGATAGATCACAGAAAGCCAAGCACATACACTGGAAGATGAAGTAG
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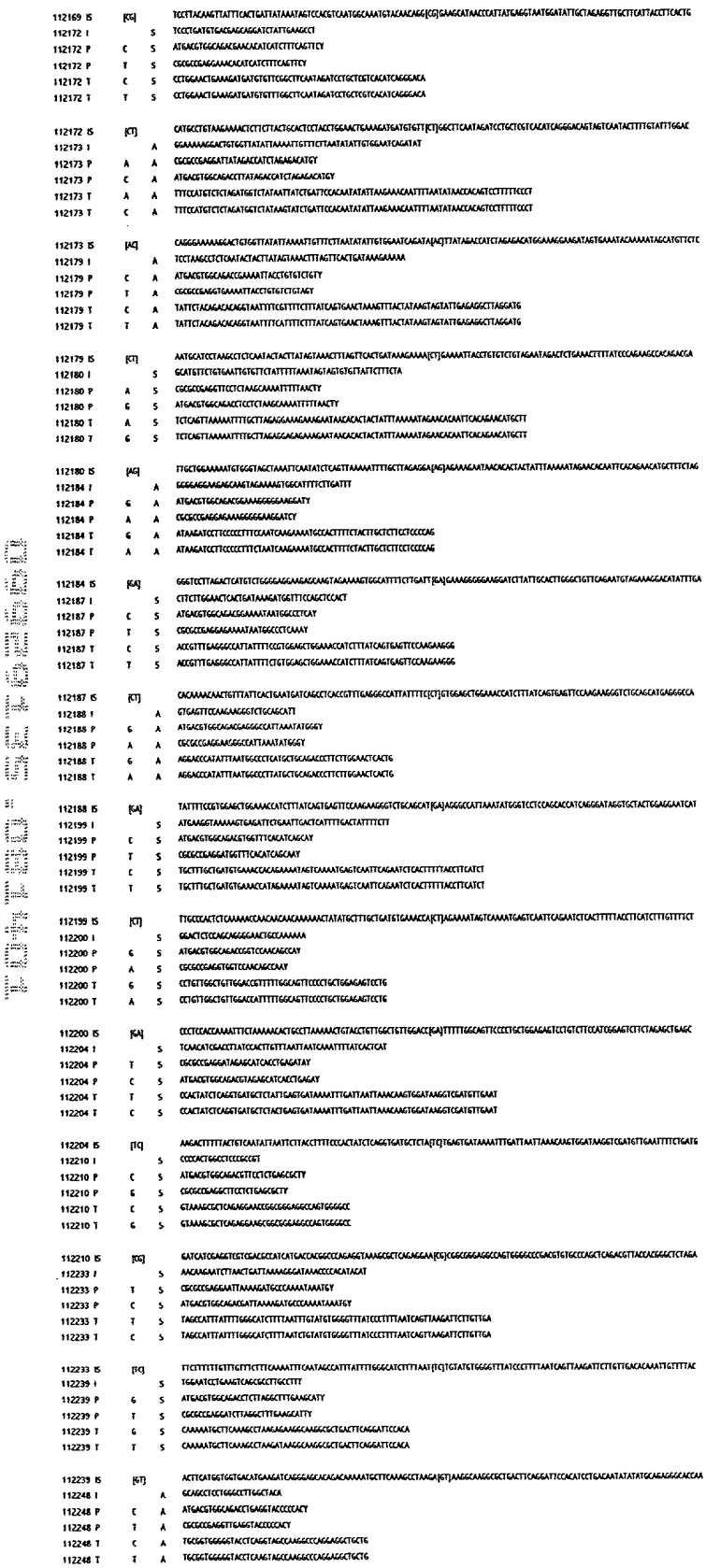
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112157 I A CCCTCCTGCACCGTCACCAGCTA
112157 P C A ATGACGTGGCAGACCCTGCACTTGCAGCY
112157 P T A CGCGCCGAGGTCTGCACTTGCAGCAY
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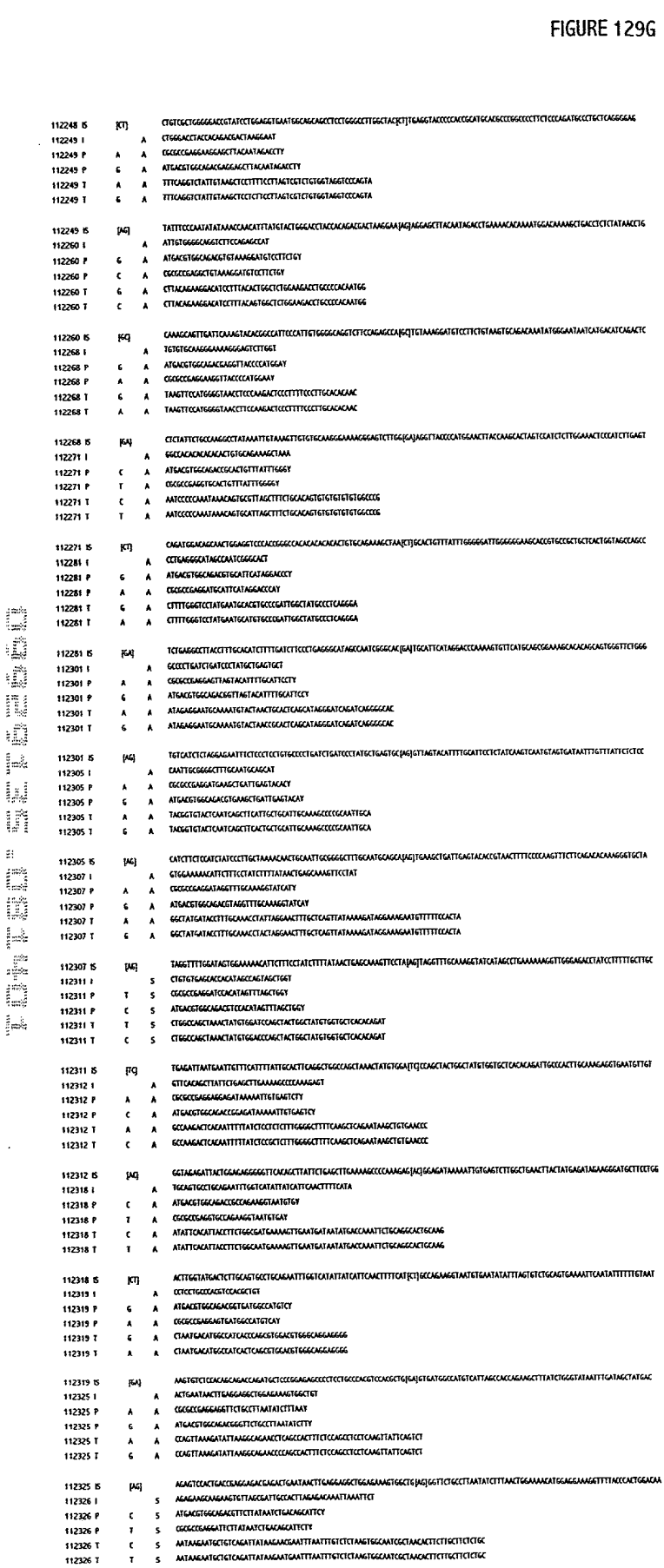
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112158 I S CGGGACAGGAGGCCGTGGTACCAT
112158 P T S CGCGCCGAGGAGGTTGGCCAGCAAY
112158 P C S ATGACGTGGCAGACGGGTTGGCCAGCAY
112158 T T S GACCTTGCTGGCCAACCTGGTACCACGGCCTCCTGTCCCGCC
112158 T C S GACCTTGCTGGCCAACCCTGGTACCACGGCCTCCTGTCCCGCC

112158 IS [TC] CTCTGTTCCCAAGAGCTCCATGCAGGTGCCACAGGATGGAGAAGAGCCTTGCTGGCCAACC[TC]TGGTACCACGGCCTCCTGTCCCGCCAGGTACCACCCACAGCAGGACCTCAGCACCATCTG
112168 I A CTTCTGTTTTTGAAATTTAAGAACCTCATTTATTACCAACTTCTTTTAGGATTATTAACTT
112168 P G A ATGACGTGGCAGACGAACATCTCTTGGAGGATTAY
112168 P C A CGCGCCGAGGCAAACATCTCTTGGAGGATTY
112168 T G A GTACTAATCCTCCAAGAGATGTTTCAGTTAATAATCCTAAAAGAAGTTGGTAATAAATGAGGTTCTTAAATTTCAAAAACAGAAG
112168 T C A GTACTAATCCTCCAAGAGATGTTTGAGTTAATAATCCTAAAAGAAGTTGGTAATAAATGAGGTTCTTAAATTTCAAAAACAGAAG

112168 IS [GC] CTTCTGTTTTTGAAATTTAAGAACCTCATTTATTACCAACTTCTTTTAGGATTATTAACT[GC]AAACATCTCTTGGAGGATTAGTACAAATATTATGTTCTCCCATCATCTCTATAACAGGCT
112169 I A AGTCCACGTCAATGGCAAATGTACAACAGGT
112169 P C A CGCGCCGAGGCGAAGCATAACCCATTATGAY
112169 P G A ATGACGTGGCAGACGGAAGCATAACCCATTATGAY
112169 T C A TACCTCATAATGGGTTATGCTTCCCCTGTTGTACATTTGCCATTGACGTGGACTAT
112169 T G A TACCTCATAATGGGTTATGCTTCCCCTGTTGTACATTTGCCATTGACGTGGACTAT

FIGURE 129G


112169 IS [CG] TCCTTACAAGTTATTTCACTGATTATAAATAGTCCACGTCAATGGCAAATGTACAACAGG[CG]GAAGCATAACCCATTATGAGGTAATGGATATTGCTAGAGGTTGCTTCATTACCTTCACTG
112172 I S TCCCTGATGTGACGAGCAGGATCTATTGAAGCCT
112172 P C S ATGACGTGGCAGACGAACACATCATCTTTCAGTTCY
112172 P T S CGCGCCGAGGAACACATCATCTTTCAGTTCY
112172 T C S CCTGGACTGAAAGATGATGTGTTGGCTTCAATAGATCCTGCTGTCACATCAGGGACA
112172 T T S CCTGGAACTGAAAGATGATGTGTTTGGCTTCAATAGATCCTGCTGTCACATCAGGGACA
112172 IS [CT] CATGCCTGTAAGAAAACTCTTCTTACTGCACTCCTACCTGGAACTGAAAGATGATGTGT[CT]GGCTTCAATAGATCCTGCTGTCACATCAGGGACAGTAGTCAATACTTTTGTATTTGGAC
112173 I A GGAAAAAGGACTGTGGTTATATTAAAATTGTTTCTTAATATATTGTGGAATCAGATAT
112173 P A A CGCGCCGAGGATTATAGACCATCTAGAGACATGY
112173 P C A ATGACGTGGCAGACCTTATAGACCATCTAGAGACATGY
112173 T A A TTTCCATGTCTCTAGATGGTCTATAATTATCTGATTCCACAATATATTAAGAAACAATTTTAATATAACCACAGTCCTTTTCCCT
112173 T C A TTTCCATGTCTCTAGATGGTCTATAAGTATCTGATTCCACAATATATTAAGAAACAATTTTAATATAACCACAGTCCTTTTCCCT
112173 IS [AC] CAGGGAAAAAGGACTGTGGTTATATTAAAATTGTTTCTTAATATATTGTGGAATCAGATA[AC]TTATAGACCATCTAGAGACATGGAAAGGAAGATAGTGAAATACAAAAATAGCATGTTCTC
112179 I A TCCTAAGCCTCTCAATACTACTTATAGTAAACTTTAGTTCACTGATAAAGAAAAA
112179 P C A ATGACGTGGCAGACCGAAAATTACCTGTGTCTGTY
112179 P T A CGCGCCGAGGTGAAAATTACCTGTGTCTGTAGT
112179 T C A TATTCTACAGACACAGGTAATTTTCGTTTTCTTTATCAGTGAACTAAAGTTTACTATAAGTAGTATTGAGAGGCTTAGGATG
112179 T T A TATTCTACAGACACAGGTAATTTTCATTTTCTTTATCAGTGAACTAAAGTTTACTATAAGTAGTATTGAGAGGCTTAGGATG
112179 IS [CT] AATGCATCCTAAGCCTCTCAATACTACTTATAGTAAACTTTAGTTCACTGATAAAGAAAA[CT]GAAAATTACCTGTGTCTGTAGAATAGACTCTGAAACTTTTATCCCAGAAGCCACAGACGA
112180 I S GCATGTTCTGTGAATTGTGTTCTATTTTTAAATAGTAGTGTGTTATTCTTTCTA
112180 P A S CGCGCCGAGGTTCCTCTAAGCAAAATTTTTAACTY
112180 P G S ATGACGTGGCAGACCTCCTCTAAGCAAAATTTTTAACTY
112180 T A S TCTCAGTTAAAAATTTTGCTTAGAGGAAAGAAAGAATAACACACTACTATTTAAAAATAGAACACAATTCACAGAACATGCTT
112180 T G S TCTCAGTTAAAAATTTTGCTTAGAGGAGAGAAAGAATAACACACTACTATTTAAAAATAGAACACAATTCACAGAACATGCTT
112180 IS [AG] TTGCTGGAAAAATGTGGGTAGCTAAATTCAATATCTCAGTTAAAAATTTTGCTTAGAGGA[AG]AGAAAGAATAACACACTACTATTTAAAAATAGAACACAATTCACAGAACATGCTTTCTAG
112184 I A GGGGAGGAAGAGCAAGTAGAAAAGTGGCATTTTCTTGATTT
112184 P G A ATGACGTGGCAGACGGAAAGGGGGAAGGATY
112184 P A A CGCGCCGAGGAGAAAGGGGGAAGGATCY
112184 T G A ATAAGATCCTTCCCCCTTTCCAATCAAGAAAATGCCACTTTTCTACTTGCTCTTCCTCCCCAG
112184 T A A ATAAGATCCTTCCCCCTTTCTAATCAAGAAAATGCCACTTTTCTACTTGCTCTTCCTCCCCAG
112184 IS [GA] GGGTCCTTAGACTCATGTCTGGGGCAGGAAGAGCAAGTAGAAAAGTGGCATTTTCTTGATT[GA]GAAAGGGGGAAGGATCTTATTGCACTTGGGCTGTTCAGAATGTAGAAAGGACATATTTGA
112187 I S CTTCTTGGAACTCACTGATAAAGATGGTTTCCAGCTCCACT
112187 P C S ATGACGTGGCAGACGGAAAATAATGGCCCTCAY
112187 P T S CGCGCCGAGGAGAAAATAATGGCCCTCAAAY
112187 T C S ACCGTTTGAGGGCCATTATTTTCCGTGGAGCTGGAAACCATCTTTATCAGTGAGTTCCAAGAAGGG
112187 T T S ACCGTTTGAGGGCCATTATTTTCTGTGGAGCTGGAAACCATCTTTATCAGTGAGTTCCAAGAAGGG
112187 IS [CT] CACAAAACAACTGTTTATTCACTGAATGATCAGCCTCACCGTTTGAGGGCCATTATTTTC[CT]GTGGAGCTGGAAACCATCTTTATCAGTGAGTTCCAAGAAGGGTCTGCAGCATGAGGGCCA
112188 I A GTGAGTTCCAACAAGGGTCTGCAGCATT
112188 P G A ATGACGTGGCAGACGAGGGCCATTAAATATGGGY
112188 P A A CGCGCCGAGGAAGGGCCATTAAATATGGGY
112188 T G A AGGACCCATATTTAATGGCCCTCATGCTGCAGACCCTTCTTGGAACTCACTG
112188 T A A AGGACCCATATTTAATGGCCCTTATGCTGCAGACCCTTCTTGGAACTCACTG
112188 IS [GA] TATTTTCCGTGGAGCTGGAAACCATCTTTATCAGTGAGTTCCAAGAAGGGTCTGCAGCAT[GA]AGGGCCATTAAATATGGGTCCTCCAGCACCATCAGGGATAGGTGCTACTGGAGGAATCAT
112199 I S ATGAAGGTAAAAAGTGAGATTCTGAATTGACTCATTTTGACTATTTTCTT
112199 P C S ATGACGTGGCAGACGTGGTTTCACATCAGCAY
112199 P T S CGCGCCGAGGATGGTTTCACATCAGCAAY
112199 T C S TGCTTTGCTGATGTGAAACCACAGAAAATAGTCAAAATGAGTCAATTCAGAATCTCACTTTTTACCTTCATCT
112199 T T S TGCTTTGCTGATGTGAAACCATAGAAAATAGTCAAAATGAGTCAATTCAGAATCTCACTTTTTACCTTCATCT
112199 IS [CT] TTGCCCACTCTCAAAACCAACAACACAACAAAAACTATATGCTTTGCTGATGTGAAACCA[CT]AGAAAATAGTCAAAATGAGTCAATTCAGAATCTCACTTTTTACCTTCATCTTTGTTTTCT
112200 I S GGACTCTCCAGCAGGGGAACTGCCAAAAA
112200 P G S ATGACGTGGCAGACCGGTCCAACAGCCAY
112200 P A S CGCGCCGAGGTGCTCCAACAGCCAAY
112200 T G S CCTGTTGGCTGTTGGACCGTTTTTGGCAGTTCCCCTGCTGGAGAGTCCTG
112200 T A S CCTGTTGGCTGTTGGACCATTTTTGGCAGTTCCCCTGCTGGAGAGTCCTG
112200 IS [GA] CCCTCCACCAAAATTTCTAAAAACACTGCCTTAAAAACTGTACCTGTTGGCTGTTGGACC[GA]TTTTTGGCAGTTCCCCTGCTGGAGAGTCCTGTCTTCCATGGGAGTCTTCTAGAGCTGAGC
112204 I S TCAACATCGACCTTATCCACTTGTTTAATTAATCAAATTTTATCACTCAT
112204 P T S CGCGCCGAGGATAGAGCATCACCTGAGATAY
112204 P C S ATGACGTGGCAGACGTAGAGCATCACCTGAGAY
112204 T T S CCACTATCTCAGGTGATGCTCTATTGAGTGATAAAATTTGATTAATTAAACAAGTGGATAAGGTCGATGTTGAAT
112204 T C S CCACTATCTCAGGTGATGCTCTACTGAGTGATAAAATTTGATTAATTAAACAAGTGGATAAGGTCGATGTTGAAT
112204 IS [TC] AAGACTTTTTACTGTCAATATTAATTCTTACCTTTCCCACTATCTCAGGTGATGCTCTA[TC]TGAGTGATAAAATTTGATTAATTAAACAAGTGGATAAGGTCGATGTTGAATTTTCTGATG
112210 I S CCCCACTGGCCTCCCGCCGT
112210 P C S ATGACGTGGCAGACGTTCCTCTGAGCGCTY
112210 P G S CGCGCCGAGGCTTCCTCTGAGCGCTY
112210 T C S GTAAAGCGCTCAGAGGAACCGGCGGGAGGCCAGTGGGGCC
112210 T G S GTAAAGCGCTCAGAGGAAGCGGCGGGAGGCCAGTGGGGCC
112210 IS [CG] GATCATCGAAGTCGTCGAACGCATCATGACCACGGCCCAGAGGTAAAGCGCTCAGAGGAA[CG]CGGCGGGAGGCCAGTGGGGCCCGACGTGTGCCCAGCTCAGACGTTACCACGGGCTCTAGA
112233 I S AACAAGAATCTTAACTGATTAAAAGGGATAAACCCCACATACAT
112233 P T S CGCGCCGAGGAATTAAAAGATGCCCAAAATAAATGY
112233 P C S ATGACGTGGCAGACGATTAAAAGATGCCCAAAATAAATGY
112233 T T S TAGCCATTTATTTTGGGGCATCTTTTAATTTGTATGTGGGGTTTATCCCTTTTAATCAGTTAAGATTCTTGTTGA
112233 T C S TAGCCATTTATTTTGGGGCATCTTTTAATCTGTATGTGGGGTTTATCCCTTTTAATCAGTTAAGATTCTTGTTGA
112233 IS [TC] TTCTTTTTTGTTTGTTTCTTTCAAAATTTCAATAGCCATTTATTTTGGGCATCTTTTAAT[TC]TGTATGTGGGGTTTATCCCTTTTAATCAGTTAAGATTCTTGTTGACACAAATTGTTTTAC
112239 I S TGGAATCCTGAAGTCAGCGCCTTGCCTTT
112239 P G S ATGACGTGGCAGACCTCTTAGGCTTTGAAGCATY
112239 P T S CGCGCCGAGGATCTTAGGCTTTGAAGCATTY
112239 T G S CAAAAATGCTTCAAAGCCTAAGAAAGGCAAGGCGCTGACTTCAGGATTCCACA
112239 T T S CAAAAATGCTTCAAAGCCTAAGATAAGGCAAGGCGCTGACTTCAGGATTCCACA
112239 IS [GT] ACTTCATGGTGGTGACATGAAGATCAGGGAGCACAGACAAAAATGCTTCAAAGCCTAAGA[GT]AAGGCAAGGCGCTGACTTCAGGATTCCACATCCTGACAATATATATGCAGAAGGCACCAA
112248 I A GCAGCCTCCTGGGCCTTGGCTACA
112248 P C A ATGACGTGGCAGACCTGAGGTACCCCCACY
112248 P T A CGCGCCGAGGTTGAGGTACCCCCACY
112248 T C A TGCGGTGGGGGTACCTCAGGTAGCCAAGGCCCAGGAGGCTGCTG
112248 T T A TGCGGTGGGGGTACCTCAAGTAGCCAAGGCCCAGGAGGCTGCTG


112248 IS [CT] CTGTCGCTGGGGGATCGTATCCTGGAGGTGAATGGCAGCAGCCTCCTGGGCCTTGGCTACJCTJTGAGGTACCCCACCGCATGCACGCCCGGCCCCTTCTCCCAGATGCCCTGCTCAGGGGAG
112249 I A CTGGGACCTACCACAGACGACTAAGGAAT
112249 P A A CGCGCCGAGGAAGGAGCTTACAATAGAACCTY
112249 P G A ATGACGTGGCAGACGAGGAGCTTACAATAGAACCTY
112249 T A A TTTCAGGTCTATTGTAAGCTCCTTTCCTTAGTCGTCTGTGGTAGGTCCCAGTA
112249 T G A TTTCAGGTCTATTGTAAGCTCCTCTTCCTTAGTCGTCTGTGGTAGGTCCCAGTA

112249 IS [AG] TATTTCCCAATATATAAACCAACATTTATGTACTGGGACCTACCACAGACGACTAAGGAA[AG]AGGAGCTTACAATAGACCTGAAAACACAAAATGGACAAAAGCTGACCTCTCTATAACCTG
112260 I A ATTGTGGGGCAGGTCTTCCAGAGCCAT
112260 P G A ATGACGTGGCAGAGGTGTAAAGGATGTCCTTCTGY
112260 P C A CGCGCCGAGGCTGTAAAGGATGTCCTTCTGY
112260 T G A CTTACAGAAGGACATCCTTACACTGGCTCTGGAAGACCTGCCCCACAATGG
112260 T C A CTTACAGAAGGACATCCTTACAGTGGCTCTGGAAGACCTGCCCCACAATGG

112260 IS [GC] CAAAGCAGTTGATTCAAAGTACACGGCCATTCCCATTGTGGGGCAGGTCTTCCAGAGCCA[GC]TGTAAAGGATGTCCTTCTGTAAGTGCAGACAAATATGGGAATAATCATGACATCAGACTC
112268 I A TGTGTGCAAGGGAAAAGGAGTCTTGGT
112268 P G A ATGACGTGGCAGACGAGGTTACCCCATGGAY
112268 P A A CGCGCCGAGGAAGGTTACCCCATGGAAY
112268 T G A TAAGTTCCATGGGGTAACCTCCCAAGACTCCCTTTTCCCTTGCACACAAC
112268 T A A TAAGTTCCATGGGGTAACCTTCCAAGACTCCCTTTTCCCTTGCACACAAC

112268 IS [GA] CTCTATTCTGCCAAGGCCTATAAAATTGTAAAGTTGTGTGCAAGGGAAAAGGGAGTCTTGG[GA]AGGTTACCCCATGGAACTTACCAAGCACTAGTCCATCTCTTGGAAACTCCCATCTTGAGT
112271 I A GGCCACACACACACACTGTGCAGAAAGCTAAA
112271 P C A ATGACGTGGCAGACGCACTGTTTATTTGGGGY
112271 P T A CGCGCCGAGGTGCACTGTTTATTTGGGGY
112271 T C A AATCCCCCAAATAAACAGTGCGTTAGCTTTCTGCACAGTGTGTGTGTGTGGCCCG
112271 T T A AATCCCCCAAATAAACAGTGCATTAGCTTTCTGCACAGTGTGTGTGTGGCCCG

112271 IS [CT] CAGATGGACAGCAACTGGAGGTCCCACCGGGCCACACACACACACTGTGCAGAAAGCTAA[CT]GCACTGTTTATTTGGGGGATTGGGGGGAAGCACCGTGCCGCTGCTCACTGGTAGCCAGCC
112281 I A CCTGAGGGCATAGCCAATCGGGCACT
112281 P G A ATGACGTGGCAGACGTGCATTCATAGGACCCY
112281 P A A CGCGCCGAGGATGCATTCATAGGACCCAY
112281 T G A CTTTTGGGTCCTATGAATGCATGTGCCCGATTGGCTATGCCCTCAGGGA
112281 T A A CTTTTGGGTCCTATGAATGCATGTGCCCGATTGGCTATGCCCTCAGGGA

112281 IS [GA] TCTGAGGCCTTACCTTTGCACATCTTTTGATCTCCCTGAGGGCATAGCCAATCGGGCAC[GA]TGCATTCATAGGACCCAAAAGTGTTCATGCAGCGGAAAGCACACAGCAGTGGGTTCTGGG
112301 I A GCCCCTGATCTGATCCCTATGCTGAGTGCT
112301 P A A CGCGCCGAGGAGTTAGTACATTTTGCATTCCTY
112301 P G A ATGACGTGGCAGACGGTTAGTACATTTTGCATTCCY
112301 T A A ATAGAGGAATGCAAAATGTACTAACTGCACTCAGCATAGGGATCAGATCAGGGGCAC
112301 T G A ATAGAGGAATGCAAAATGTACTAACCGCACTCAGCATAGGGATCAGATCAGGGGCAC

112301 IS [AG] TGTCATCTCTAGGAGAATTTCTCCCTCCTGTGCCCCTGATCTGATCCCTATGCTGAGTGC[AG]GTTAGTACATTTTGCATTCCTCTATCAAGTCAATGTAGTGATAATTTGTTTATTCTCTCC
112305 I A CAATTGCGGGGCTTTGCAATGCAGCAT
112305 P A A CGCGCCGAGGATGAAGCTGATTGAGTACACY
112305 P G A ATGACGTGGCAGACGTGAAGCTGATTGAGTACAY
112305 T A A TACGGTGTACTCAATCAGCTTCATTGCTGCATTGCAAAGCCCCGCAATTGCA
112305 T G A TACGGTGTACTCAATCAGCTTCACTGCTGCATTGCAAAGCCCCGCAATTGCA

112305 IS [AG] CATCTTCTCCATCTATCCCTTGCTAAAACAACTGCAATTGCGGGGCTTTGCAATGCAGCA[AG]TGAAGCTGATTGAGTACACGTAACTTTTCCCCAAGTTTCTTCAGACACAAAGGGTGCTA
112307 I A GTGGAAAAACATTCTTTCCTATCTTTTATAACTGAGCAAAGTTCCTAT
112307 P A A CGCGCCGAGGATAGGTTTGCAAAGGTATCATY
112307 P G A ATGACGTGGCAGACGTAGGTTTGCAAAGGTATCAY
112307 T A A GGCTATGATACCTTTGCAAACCTATTAGGAACTTTGCTCAGTTATAAAAGATAGGAAAGAATGTTTTTCCACTA
112307 T G A GGCTATGATACCTTTGCAAACCTACTAGGAACTTTGCTCAGTTATAAAAGATAGGAAAGAATGTTTTTCCACTA

112307 IS [AG] TAGGTTTTGGATAGTGGAAAAACATTCTTTCCTATCTTTTATAACTGAGCAAAGTTCCTA[AG]TAGGTTTGCAAAGGTATCATAGCCTGAAAAAAGGTTGGGAGACCTATCCTTTTTGCTTGC
112311 I S CTGTGTGAGCACCACATAGCCAGTAGCTGGT
112311 P T S CGCGCCGAGGATCCACATAGTTTAGCTGGY
112311 P C S ATGACGTGGCAGACGTCCACATAGTTTAGCTGGY
112311 T T S CTGGCCAGCTAAACTATGTGGATCCAGCTACTGGCTATGTGGTGCTCACACAGAT
112311 T C S CTGGCCAGCTAAACTATGTGGACCCAGCTACTGGCTATGTGGTGCTCACACAGAT

112311 IS [TC] TGAGATTAATGAATTGTTTCATTTTATTGCACTTCAGGCTGGCCAGCTAAACTATGTGGA[TC]CCAGCTACTGGCTATGTGGTGCTCACACAGATTGCCCACTTGCAAACAGGTGAATGTTGT
112312 I A GTTCACAGCTTATTCTGAGCTTGAAAAGCCCCAAAGAGT
112312 P A A CGCGCCGAGGAGGAGATAAAAATTGTGAGTCTY
112312 P C A ATGACGTGGCAGACCGGAGATAAAAATTGTGAGTCY
112312 T A A GCCAAGACTCACAATTTTTATCTCCCTCCTTTGGGGCTTTTCAAGCTCAGAATAAGCTGTGAACCC
112312 T C A GCCAAGACTCACAATTTTTATCTCCGCTCTTTGGGGCTTTTCAAGCTCAGAATAAGCTGTGAACCC

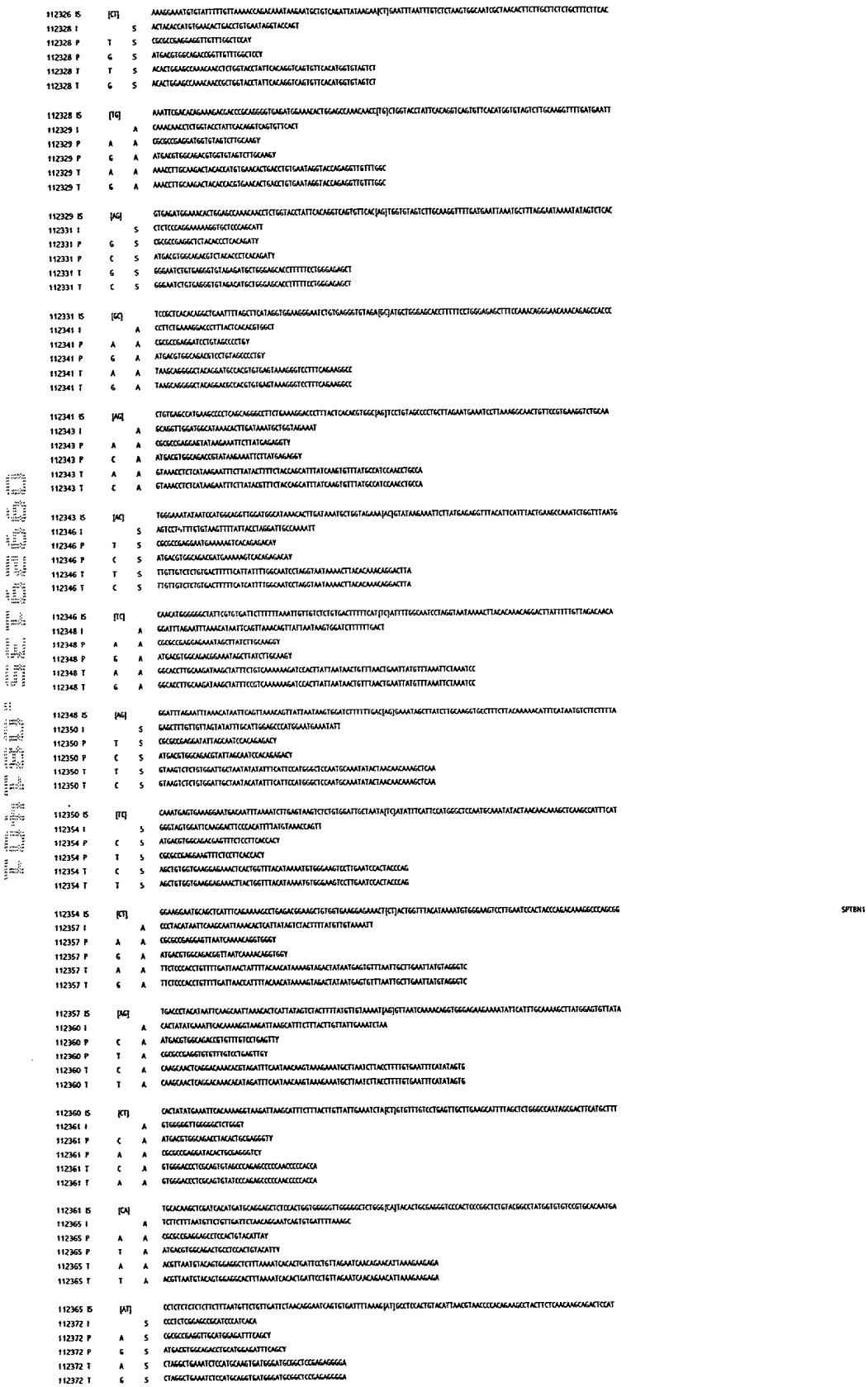
112312 IS [AG] GGTAGAGATTACTGGAGAGGGGGTTCACAGCTTATTCTGAGCTTGAAAAGCCCCAAAGAG[AG]GGAGATAAAAATGTGAGTCTTGGCTGAACTTACTATGAGATAGAAGGGATGCTTCCTGG
112318 I A TGCAGTGCCTGCAGAATTTGGTCATATTATCATTCAACTTTTCATA
112318 P C A ATGACGTGGCAGACGCGCAGAAGGTAATGTGY
112318 P T A CGCGCCGAGGTGCCAGAAGGTAATGTGAY
112318 T C A ATATTCACATTACCTTCTGGCGATGAAAAGTTGAATGATAATATGACCAAATTCTGCAGGCACTGCAAG
112318 T T A ATATTCACATTACCTTCTGGCAATGAAAAGTTGAATGATAATATGACCAAATTCTGCAGGCACTGCAAG

112318 IS [CT] ACTTGGTATGACTCTTGCAGTGCCTGCAGAATTTGGTCATATTATCATTCAACTTTTCAT[CT]GCCAGAAGGTAATGTGAATATATTTAGTGTCTGCAGTGAAAATTCAATATTTTTTGTAAT
112319 I A CCTCCTGCCCACGTCCACGCTGT
112319 P G A ATGACGTGGCAGACGGTGATGGCCATGTCY
112319 P A A CGCGCCGAGGAGTGATGGCCATGTCAY
112319 T G A CTAATGACATGGCCATCACCCAGCGTGGACGTGGGCAGGAGGGG
112319 T A A CTAATGACATGGCCATCACTCAGCGTGGACGTGGGCAGGAGCGG

112319 IS [GA] AAGTGTCTCCACAGCAGACCAGATGCTCCCGGAGAGCCCCTCCTGCCCACGTCCACGCTG[GA]GTGATGGCCATGTCATTAGCCACCAGAAGCTTATCTGGGTATAATTTGATAGCTATGAC
112325 I A ACTGAATAACTTGAGGAGGCTGGAGAAAGTGGCTGT
112325 P A A CGCGCCGAGGAGGTTCTGCCTTAATATCTTTAAT
112325 P G A ATGACGTGGCAGACGGGTTCTGCCTTAATATCTTY
112325 T A A CCAGTTAAAGATATTAAGGCAGAACCTCAGCCACTTTCTCCAGCCTCCTCAAGTTATTCAGTCT
112325 T G A CCAGTTAAAGATATTAAGGCAGAACCCCAGCCACTTTCTCCAGCCTCCTCAAGTTATTCAGTCT

112325 IS [AG] AGAGTCCACTGACCGAGGAGACGAGACTGAATAACTTGAGGAGGCTGGAGAAAGTGGCTG[AG]GGTCTCGCCTTAATATCTTTAACTGGAAAACATGGAGGAAAGGTTTTACCCACTGGACAA
112326 I S AGAGAAGCAAGAAGTGTTAGCGATTGCCACTTAGAGACAAATTAAATTCT
112326 P C S ATGACGTGGCAGACGTTCTTATAATCTGACAGCATTCY
112326 P T S CGCGCCGAGGATTCTTATAATCTGACAGCATTCTY
112326 T C S AATAAGAATGCTGTCAGATTATAAGAACGAATTTAATTTGTCTCTAAGTGGCAATCGCTAACACTTCTTGCTTCTCTGC
112326 T T S AATAAGAATGCTGTCAGATTATAAGAATGAATTTAATTTGTCTCTAAGTGGCAATCGCTAACACTTCTTGCTTCTCTGC

FIGURE 129G


112326 IS [CT] AAAGGAAATGTGTATTTTTGTTAAAACCAGACAAATAAGAATGCTGTCAGATTATAAGAA[CT]GAATTTAATTTGTCTCTAAGTGGCAATCGCTAACACTTCTTGCTTCTCTGCTTTCTTCAC
112328 I S ACTACACCATGTGAACACTGACCTGTGAATAGGTACCAGT
112328 P T S CGCGCCGAGGAGGTTGTTTGGCTCCAY
112328 P G S ATGACGTGGCAGACCGGTTGTTTGGCTCCY
112328 T T S ACACTGGAGCCAAACAACCGCTGGTACCTATTCACAGGTCAGTGTTCACATGGTGTAGTCT
112328 T G S ACACTGGAGCCAAACAACCGCTGGTACCTATTCACAGGTCAGTGTTCACATGGTGTAGTCT

112328 IS [TG] AAATTCGACACAGAAAGACCACCCGCAGGGGTGAGATGGAAAACACTGGAGCCAAACAACC[TG]CTGGTACCTATTCACAGGTCAGTGTTCACATGGTGTAGTCTTGCAAGGTTTTGATGAATT
112329 I A CAAACAACCTCTGGTACCTATTCACAGGTCAGTGTTCACT
112329 P A A CGCGCCGAGGATGGTGTAGTCTTGCAAGY
112329 P G A ATGACGTGGCAGACGTGGTGTAGTCTTGCAAGY
112329 T A A AAACCTTGCAAGACTACACCATGTGAACACTGACCTGTGAATAGGTACCAGAGGTTGTTTGGC
112329 T G A AAACCTTGCAAGACTACACCACGTGAACACTGACCTGTGAATAGGTACCAGAGGTTGTTTGGC

112329 IS [AG] GTGAGATGGAAACACTGGAGCCAAACAACCTCTGGTACCTATTCACAGGTCAGTGTTCAC[AG]TGGTGTAGTCTTGCAAGGTTTTGATGAATTAAATGCTTTAGGAATAAAATATAGTCTCAC
112331 I S CTCTCCCAGGAAAAAGGTGCTCCCAGCATT
112331 P G S CGCGCCGAGGCTCTACACCCTCACAGATY
112331 P C S ATGACGTGGCAGAGGTCTACACCCTCACAGATY
112331 T G S GGGAATCTGTGAGGGTGTAGAGATGCTGGGAGCACCTTTTTCCTGGGAGAGCT
112331 T C S GGGAATCTGTGAGGGTGTAGACATGCTGGGAGCACCTTTTTCCTGGGAGAGCT

112331 IS [GC] TCCGCTCACACAGGCTCAATTTTAGCTTCATAGGTGGAAGGGAATCTGTGAGGGTGTAGA[GC]ATGCTGGGAGCACCTTTTTCCTGGGAGAGCTTTCCAAACAGGGAACAAACAGAGCCACCC
112341 I A CCTTCTCGAAAGGACCCTTTACTCACACGTGGCT
112341 P A A CGCGCCGAGGATCCTGTAGCCCCTGY
112341 P G A ATGACGTGGCAGACGTCCTGTAGCCCCTGY
112341 T A A TAAGCAGGGGCTACAGGATGCCACGTGTGAGTAAAGGGTCCTTTCAGAAGGCC
112341 T G A TAAGCAGGGGCTACAGGACGCCACGTGTGAGTAAAGGGTCCTTTCAGAAGGCC

112341 IS [AG] CTGTGAGCCATGAAGCCCCTCAGCAGGGCCTTCTGAAAGGACCCTTTACTCACACGTGGC[AG]TCCTGTAGCCCCTGCTTAGAATGAAATCCTTAAAGCCAACTGTTCCGTGAAGGTCTGCAA
112343 I A GCAGGTTGGATGGCATAAACACTTGATAAATGCTGGTAGAAAT
112343 P A A CGCGCCGAGGAGTATAAGAAATTCTTATGAGAGGTY
112343 P C A ATGACGTGGCAGACGTATAAGAAATTCTTATGAGAGGY
112343 T A A GTAAACCTCTCATAAGAATTTCTTATACTTTCTACAGCATTTATCAAGTGTTTATGCCATCCAACCTGCCA
112343 T C A GTAAACCTCTCATAAGAATTTCTTATACGTTCTACAGCATTTATCAAGTGTTTATGCCATCCAACCTGCCA

112343 IS [AC] TGGGAAATATAATCCATGGCAGGTTGGATGGCATAAACACTTGATAAATGCTGGTAGAAA[AC]GTATAAAGAAATTCTTATGAGAGGTTTACATTCATTTACTGAAGCCAAATCTGGTTTAATG
112346 I S AGTCCT+TTTGTGTAAGTTTTATTACCTAGGAATTGCCAAAATT
112346 P T S CGCGCCGAGGAATGAAAAAGTCACAGAGACAY
112346 P C S ATGACGTGGCAGACGATGAAAAGTCACAGAGACAY
112346 T T S TTGTTGTCTCTGTGACTTTTTCATTATTTTGGCAATCCTAGGTAATAAAACTTACACAAACAGGACTTA
112346 T C S TTGTTGTCTCTGTGACTTTTTCATCATTTTGGCAATCCTAGGTAATAAAACTTACACAAACAGGACTTA

112346 IS [TC] CAACATGGGGGGCTATTCGTGTGATTCTTTTTTAAATTGTTGTCTCTGTGACTTTTTCAT[TC]ATTTTGGCAATCCTAGGTAATAAAACTTACACAAACAGGACTTATTTTTGTTAGACAACA
112348 I A GGATTTAGAATTTAAACATAATTCAGTTAAACAGTTATTAATAAGTGGATCTTTTTGACA[AG]GAAATAGCTTATCTGCAAGGTGCCTTTCTTACAAAAACATTTCATAATGTCTCTTTTA
112348 P A A CGCGCCGAGGAGAAATAGCTTATCTGCAAGGY
112348 P G A ATGACGTGGCAGACGGAAATAGCTTATCTGCAAGY
112348 T A A GGCACCTTGCAAGATAAGCTATTTCTGTCAAAAAAGATCCACTTATTAATAACTGTTTAACTGAATTATGTTTAAATTCTAAATCC
112348 T G A GGCACCTTGCAAGATAAGCTATTTCCGTCAAAAAAGATCCACTTATTAATAACTGTTTAACTGAATTATGTTTAAATTCTAAATCC

112348 IS [AG] GGATTTAGAATTTAAACATAATTCAGTTAAACAGTTATTAATAAGTGGATCTTTTTGACA[AG]GAAATAGCTTATCTGCAAGGTGCCTTTCTTACAAAAACATTTCATAATGTCTCTTTTA
112350 I S GAGCTTTGTTGTTAGTATATTTGCATTGGAGCCCATGGAATGAAATATT
112350 P T S CGCGCCGAGGATATTAGCAATCCACAGAGACY
112350 P C S ATGACGTGGCAGACGTATTAGCAATCCACAGAGACY
112350 T T S GTAAGTCTCTGTGGATTGCTAATATATATTTCATTCCATGGGCTCCAATGCAAATATACTAACAACAAAGCTCAA
112350 T C S GTAAGTCTCTGTGGATTGCTAATACATATTTCATTCCATGGGCTCCAATGCAAATATACTAACAACAAAGCTCAA

112350 IS [TC] CAAATGAGTGAAAGGAATGACAATTTAAAATCTTGAGTAAGTCTCTGTGGATTGCTAATA[TC]ATGTATTTCATTCCATGGGCTCCAATGCAAATATACTAACAACAAAGCTCAAGCCATTTCAT
112354 I S GGGTAGTGGATTCAAGGAATTCCCACATTTTATGTAAACCAGTT
112354 P C S ATGAGCGTGGCAGACGAGTTTCTCCTTCACCACY
112354 P T S CGCGCCGAGGAAGTTTCTCCTTCACCACY
112354 T C S AGCTGTGGTGAAGGAGAAACTCACTGGTTTACATAAAATGTGGGAAGTCCTTGAATCCACTACCCAG
112354 T T S AGCTGTGGTGAAGGAGAAACTTACTGGTTTACATAAAATGTGGGAAGTCCTTGAATCCACTACCCAG

112354 IS [CT] GGAAGGAATGCAGCTCATTTCAGAAAAGCCTGAGACGGAAGCTGTGGTGAAGGAGAAACT[CT]ACTGGTTTACATAAAATGTGGGAAGTCCTTGAATCCACTACCCAGACAAAGGCCCAGCGG SPTBN1
112357 I A CCCTACATAATTCAAGCAATTAAACACTCATTATAGTCTACTTTTATGTTGTAAAATT
112357 P A A CGCGCCGAGGAGTTAATCAAAACAGGTGGGY
112357 P G A ATGACGTGGCAGACGGTTAATCAAAACAGGTGGY
112357 T A A TTCTCCCACCTGTTTTGATTAACTATTTTACAACATAAAAGTAGACTATAATGAGTGTTTAATTGCTTGAATTATGTAGGGTC
112357 T G A TTCTCCCACCTGTTTTGATTAACTATTTTACAACATAAAAGTAGACTATAATGAGTGTTTAATTGCTTGAATTATGTAGGGTC

112357 IS [AG] TGACCCTACATAATTCAAGCAATTAAACACTCATTATAGTCTACTTTTATGTTGTAAAAT[AG]GTTAATCAAAACAGGTGGGAGAAGAAAATATTCATTTGCAAAAGCTTATGGAGTGTTATA
112360 I A CACTATATGAAATTCACAAAAGGTAAGATTAAGCATTTCTTTACTTGTTATTGAAATCTA[CT]GTGTTTGTCTGAGTTGCTTGAAGCATTTTAGCTCTGGGCCAATAGGGACTTCATGCTTT
112360 P C A ATGAGCTGGCAGACCTGTTTGTCCTGAGTTY
112360 P T A CGCGCCGAGGTGTGTTTGTCCTGAGTTGY
112360 T C A CAAGCAACTCAGGACAAACACGTAGATTTCAATAACAAGTAAAGAAATGCTTAATCTTACCTTTTGTGAATTTCATATAGTG
112360 T T A CAAGCAACTCAGGACAAACACATAGATTTCAATAACAAGTAAAGAAATGCTTAATCTTACCTTTTGTGAATTTCATATAGTG

112360 IS [CT] CACTATATGAAATTCACAAAAGGTAAGATTAAGCATTTCTTTACTTGTTATTGAAATCTA[CT]GTGTTTGTCTGAGTTGCTTGAAGCATTTTAGCTCTGGGCCAATAGGGACTTCATGCTTT
112361 I A GTGGGGGTTGGGGGCTCTGGT
112361 P C A ATGACGTGGCAGACCTACACTGCGAGGGTY
112361 P A A CGCGCCGAGGATACACTGCGAGGGTCY
112361 T C A GTGGGACCCTCGCAGTGTAGCCCAGAGCCCCCAACCCCCACCA
112361 T A A GTGGGACCCTCGCAGTGTATCCCAGAGCCCCCAACCCCCACCA

112361 IS [CA] TGCACAAGCTCGATCACATGATGCAGGAGCTCTCCACTGGTGGGGGTTGGGGGCTCTGGG[CA]TACACTGCGAGGGTCCCACTCCCGGCTCTGTACGGCCTATGGTGTGTCCGTGCACAATGA
112365 I A TCTTCTTTAATGTTCTGTTGATCTCAAACAGCAATCAGTGTGATTTTAAAGC
112365 P A A CGCGCCGAGCAGCCTCCACTGTACATTAY
112365 P T A ATGAGGTGGCAGACTGCCTCCACTGTACATTY
112365 T A A ACGTTAATGTACAGTGGAGGCACTTTAAAATCACACTGATTCCTGTTAGAATCAACAGAACATTAAAGAAGAGA
112365 T T A ACGTTAATGTACAGTGGAGGCACTTTAAAATCACACTGATTCCTGTTAGAATCAACAGAACATTAAAGAAGAGA

112365 IS [AT] CCTCTCTCTCTCTCTTTAATGTTCTGTTGATTCTAACAGGAATCAGTGTGATTTTAAAG[AT]GCCTCCACTGTACATTAACGTAACCCCACAGAAGCCTACTTCTCAACAAGCAGACTCCAT
112372 I S CCCTCTCGGAGCCGCATCCCATCACA
112372 P A S CGCGCCGAGGTTGCATGGAGATTTCAGCY
112372 P G S ATGACGTGGCAGACCTGCATGGAGATTTCAGCY
112372 T A S CTAGGCTGAAATCTCCATGCAAGTGATGGGATGCGGCTCCGAGAGGGGA
112372 T G S CTAGGCTGAAATCTCCATGCAGGTGATGGGATGCGGCTCCGAGAGGGGA

FIGURE 129G

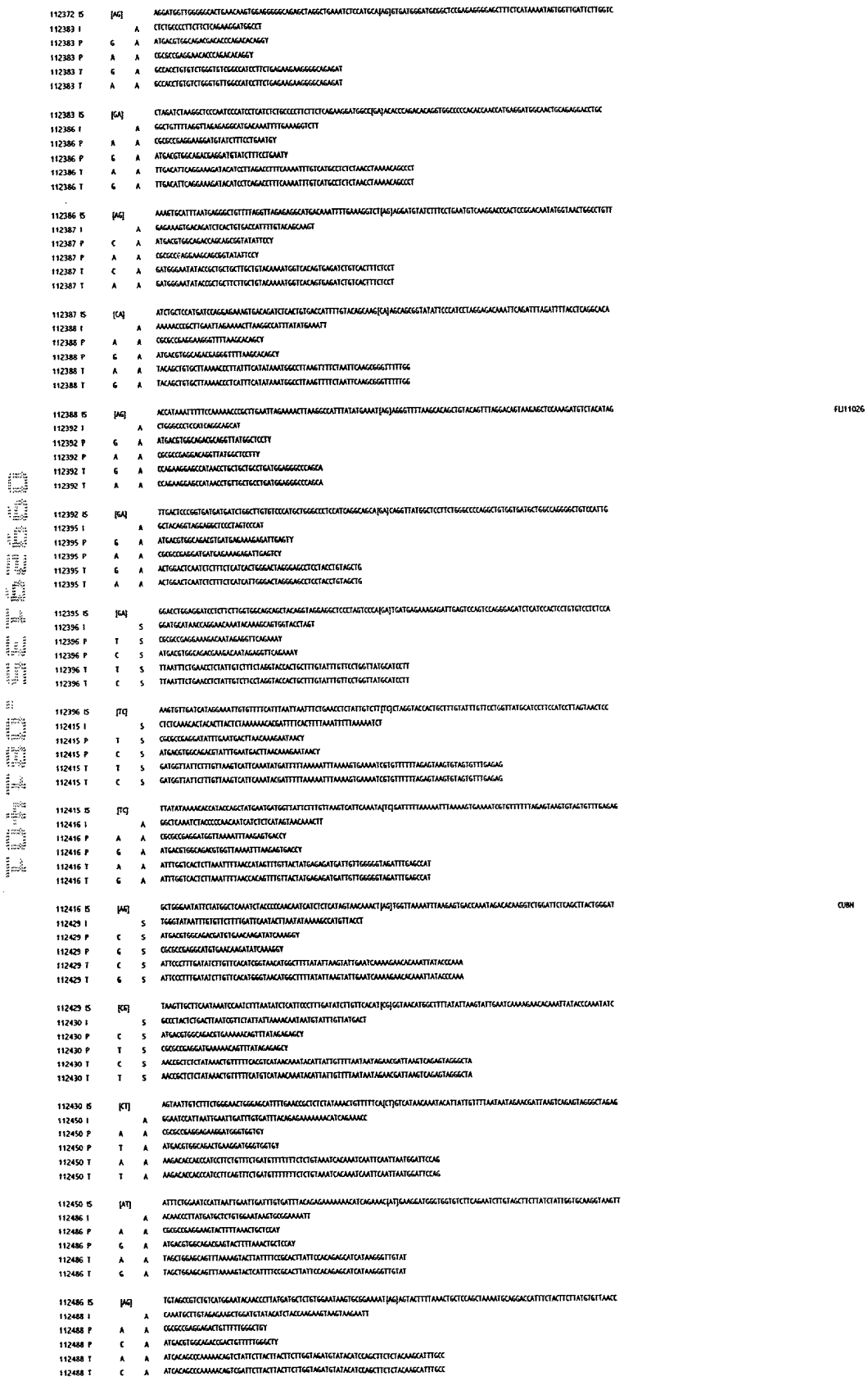

112372 IS [AG] AGGATGGTTGGGGGCACTGAACAAGTGGAGGGGGCAGAGCTAGGCTGAAATCTCCATGCA[AG]GTGATGGGATGGGCTCCGAGAGGGGAGCTTTCTCATAAAATAGTGGTTGATTCTTGGTC
112383 I A CTCTGCCCCTTCTTCTCAGAAGGATGGCCT
112383 P G A ATGACGTGGCAGACGACACCCAGACACAGGY
112383 P A A CGCSCCGAGGAACACCCAGACACAGGY
112383 T G A GCCACCTGTGTCTGGGTGTTCGGCCATCCTTCTGAGAAGAAGGGGCAGAGAT
112383 T A A GCCACCTGTGTCTGGGTGTTGGCCATCCTTCTGAGAAGAAGGGGCAGAGAT
112383 IS [GA] CTAGATCTAAGGCTCCCAATCCCATCCTCATCTCTGCCCCTTCTTCTCAGAAGGATGGCC[GA]ACACCCAGACACAGGTGGCCCCCACACCAACCATGAGGATGGCAACTGCAGAGGAACCTGC
112386 I A GGCTGTTTTAGGTTAGAGAGGCATGACAAATTTTGAAAAGTCTT
112386 P A A CGCSCCGAGGAAGGATGTATCTTTCCTGAATGY
112386 P G A ATGACGTGGCAGACGAGGATGTATCTTTCCTGAATGY
112386 T A A TTGACATTCAGGAAAGATACATCCTTAGACCTTTCAAAATTTGTCATGCCTCTCTAACCTAAAACAGCCCT
112386 T G A TTGACATTCAGGAAAGATACATCCTCAGACCTTTCAAAATTTGTCATGCCTCTCTAACCTAAAACAGCCCT
112386 IS [AG] AAAGTGCATTTAATCAGGGCTGTTTTAGGTTAGAGAGGCATGACAAATTTTGAAAGGTCT[AG]AGGATGTATCTTTCCTGAATGTCAAGGACCCACTCCGCAACAATATGGTAACTGGCCTGTT
112387 I A GAGAAAGTGACAGATCTCACTGTGACCATTTTGTACAGCAAGT
112387 P C A ATGACGTGGCAGACCAGCAGCGGTATATTCCY
112387 P A A CGCGCCCAGGAAGCAGCGGTATAATCCY
112387 T C A GATGGGAATATACCGCTGCTGCTTGCTGTACAAAATGGTCACAGTGAGATCTGTCACTTTCTCCT
112387 T A A GATGGGAATATACCGCTGCTTCTTGCTGTACAAAATGGTCACAGTGAGATCTGTCACTTTCTCCT
112387 IS [CA] ATCTGCTCCATGATCCAGCAGAAAGTGACACAGATCTCACTGTGACCATTTTGTACAGCAAG[CA]AGCAGCGGTATATTCCCATCCTCAGGAGACAAATTCAGATTTAGATTTTACCTCAGGCACA
112388 I A AAAACCCGCTTGAATTAGAAAACTTAAGGCCATTTATATGAAATT
112388 P A A CGCGCCGAGGAAGGGTTTTAAGCACAGCY
112388 P G A ATGACGTGGCAGACAGGGTTTTAAGCACAGCY
112388 T A A TACAGCTGTGCTTAAAACCCTTATTTCATATAAATGGGCTTAAGTTTTCTAATTCAAGCGGGTTTTTGG
112388 T G A TACAGCTGTGCTTAAAACCCTCATTTCATATAAATGGGCTTAAGTTTTCTAATTCAAGCGGGTTTTTGG
112388 IS [AG] ACCATAAATTTTTCCAAAACCCGCTTGAATTAGAAAACTTAAGGCCATTTATATGAAAT[AG]AGGGTTTTAAGCACAGCTGTACAGTTTAGGACAGTAAGAGCTCCAAAGATGTCTACATAG FLJ11026
112392 I A CTGGGCCCTCCATCAGGCAGCAT
112392 P G A ATGACGTGGCAGACGCAGGTTATGGCTCCTY
112392 P A A CGCGCCGAGGACAGGTTATGGCTCCTY
112392 T G A CCAGAAGGAGCCATAACCTGCTGCTGCCTGATGGAGGGCCCAGCA
112392 T A A CCAGAAGGAGCCATAACCTGTTGCTGCCTGATGGAGGGCCCAGCA
112392 IS [GA] TTGACTCCCGGTGATGATGATCTGGCTTGTGTCCCATGCTGGGCCCTCCATCAGGCAGCA[GA]CAGGTTATGGCTCCTTCTGGGCCCCAGGCTGTGGTGATGCTGGCCAGGGGCTGTCCATTG
112395 I A GCTACAGGTAGGAGGCTCCCTAGTCCCAT
112395 P G A ATGACGTGGCAGACGTGATGAGAAAGAGATTGAGTY
112395 P A A CGCGCCGAGGATGATCAGAAAGAGATTGAGTCY
112395 T G A ACTGGACTCAATCTCTTTCTCATCACTGGGACTAGGGAGCCTCCTACCTGTAGCTG
112395 T A A ACTGGACTCAATCTCTTTCTCATCATTGGGACTAGGGAGCCTCCTACCTGTAGCTG
112395 IS [GA] GGACCTGGAGGATCCTCTCTTGCTGGCAGCAGCTACAGGTAGGAGGCTCCCTAGTCCCA[GA]TGATGAGAAAGAGATTGAGTCCAGTCCAGGGAGATCTCATCCACTCCTGTGTCCTCTCCA
112396 I S GGATGCATAACCAGGAACAAATACAAAGCAGTGGTACCTAGT
112396 P T S CGCGCCGAGGAAAGACAATAGAGGTTCAGAAAY
112396 P C S ATGACGTGGCAGACGAAGACAATAGAGGTTCAGAAAY
112396 T T S TTAATTTCTGAACCTCTATTGTCTTTCTAGGTACCACTGCTTTGTATTTGTTCCTGGTTATGCATCCTT
112396 T C S TTAATTTCTGAACCTCTATTGTCTTCCTAGGTACCACTGCTTTGTATTTGTTCCTGGTTATGCATCCTT
112396 IS [TC] AAGTGTTGATCATAGGAAATTGTGTTTTCATTTAATTAATTTCTGAACCTCTATTGTCTT[TC]CTAGGTACCACTGCTTTGTATTTGTTCCTGGTTATGCATCCTTCCATCCTTAGTAACTCC
112415 I S CTCTCAAACACTACACTTACTCTAAAAAACAGGATTTTCACTTTTAAATTTTTAAAAATCT
112415 P T S CGCGCCGAGGATATTTGAATGACTTAACAAAGAATAACY
112415 P C S ATGACGTGGCAGACGTATTTGAATGACTTAACAAAGAATAACY
112415 T T S GATGGTTATTCTTTGTTAAGTCATTCAAATATGATTTTTAAAAATTTAAAAGTGAAAATCGTGTTTTTTAGAGTAAGTGTAGTGTTTGAGAG
112415 T C S GATGGTTATTCTTTGTTAAGTCATTCAAATACGATTTTTAAAAATTTAAAAGTGAAAATCGTGTTTTTTAGAGTAAGTGTAGTGTTTGAGAG
112415 IS [TC] TTATATAAAACACCATACCAGCTATGAATGATGGTTATTCTTTGTTAAGTCATTCAAATA[TC]GATTTTTAAAAATTTAAAAGTGAAAATCGTGTTTTTTAGAGTAAGTGTAGTGTTTGAGAG
112416 I A GGCTCAAATCTACCCCACAACAATCATCTCTCATAGTAACAAACTT
112416 P A A CGCGCCGAGGATGGTTAAAATTTAAGAGTGACCY
112416 P G A ATGACGTGGCAGACGTGGTTAAAATTTAAGAGTGACCY
112416 T A A ATTTGCTCACTCTTAAATTTTAACCATAGTTTGTTACTATGAGAGATGATTGTTGGGGGTAGATTTGAGCCAT
112416 T G A ATTTGGTCACTCTTAAATTTTAACCACAGTTTGTTACTATGAGAGATGATTGTTGGGGGTAGATTTGAGCCAT
112416 IS [AG] GCTGGGAATATTCTATGGCTCAAATCTACCCCCAACAATCATCTCTCATAGTAACAAACT[AG]TGGTTAAAATTTAAGAGTGACCAAATAGACACAAGGTCTGGATTCTCAGCTTACTGGGAT CUBN
112429 I S TGGGTATAATTTGTGTTCTTTGATTCAATACTTAATATATAAAGCCATGTTACCT
112429 P C S ATGACGTGGCAGACGATGTGAACAAGATATCAAAGGY
112429 P G S CGCGCCGAGGCATGTGAACAAGATATCAAAGGY
112429 T C S ATTCCCTTTGATATCTGTTCACATCGGTAACATGGCTTTATATTAAGTATTGAATCAAAAGAACACAAATTATACCCAAA
112429 T G S ATTCCCTTTGATATCTGTTCACATGGGTAACATGGCTTTATATTAAGTATTGAATCAAAAGAACACAAATTATACCCAAA
112429 IS [CG] TAAGTTGCTTCAATAAATCCAATCTTTAATATCTCATTCCCTTTGATATCTGTTCACAT[CG]GGTAACATGGCTTTATATTAAGTATTGAATCAAAAGAACACAAATTATACCCAAATATC
112430 I S GCCCTACTCTGACTTAATCGTTCTATTATTAAAACAATAATGTATTTGTTATGACT
112430 P C S ATGACGTGGCAGACGTGGAAAAACAGTTTATAGAGAGCY
112430 P T S CGCGCCGAGGATGAAAAACAGTTTATAGAGAGCY
112430 T C S AACCGCTCTCTATAAACTGTTTTTCACGTCATAACAAATACATTATTGTTTTAATAATAGAACGATTAAGTCAGAGTAGGGCTA
112430 T T S AACCGCTCTCTATAAACTGTTTTTCATGTCATAACAAATACATTATTGTTTTAATAATAGAACGATTAAGTCAGAGTAGGGCTA
112430 IS [CT] AGTAATTGTCTTTCTGGGAACTGGGAGCATTTTGAACCGCTCTCTATAAACTGTTTTTCA[CT]GTCATAACAAATACATTATTGTTTTAATAATAGAACGATTAAGTCAGAGTAGGGCTAGAG
112450 I A GGAATCCATTAATTGAATTGATTTGTGATTTACAGAGAAAAAAACATCAGAAACC
112450 P A A CGCGCCGAGGAGAAGGATGGGTGGTGTGY
112450 P T A ATGACGTGGCAGACTGAAGGATGGGTGGTGTGY
112450 T A A AAGACACCACCCATCCTTCTGTTTCTGATGTTTTTTTCTCTGTAAATCACAAATCAATTCAATTAATGGATTCCAG
112450 T T A AAGACACCACCCATCCTTCAGTTTCTGATGTTTTTTTCTCTGTAAATCACAAATCAATTCAATTAATGGATTCCAG
112450 IS [AT] ATTTCTGGAATCCATTAATTGAATTGATTTGTGATTTACAGAGAAAAAAACATCAGAAAC[AT]GAAGGATGGGTGGTGTCTTCAGAATCTTGTAGCTTCTTATCTATTGGTGCAAGGTAAGTT
112486 I A ACAACCCTTATGATGCTCTGTGGAATAAGTGCGGAAAATT
112486 P A A CGCGCCGAGGAAGTACTTTTAAACTGCTCCAY
112486 P G A ATGACGTGGCAGACGAGTACTTTTAAACTGCTCCAY
112486 T A A TAGCTGGAGCAGTTTAAAAGTACTTATTTTCCGCACTTATTCCACAGAGCATCATAAGGGTTGTAT
112486 T G A TAGCTGGAGCAGTTTAAAAGTACTCATTTTCCGCACTTATTCCACAGAGCATCATAAGGGTTGTAT
112486 IS [AG] TGTAGCCGTCTGTCATGGAATACAACCCTTATGATGCTCTGTGGAATAAGTGCGGAAAAT[AG]AGTACTTTTAAACTGCTCCAGCTAAAATGCAGGACCATTTCTACTTCTTATGTGTTAACC
112488 I A CAAATGCTTGTAGAGAAGCTGGATGTATACATCTACCAAGAAGTAAGTAAGAATT
112488 P A A CGCGCCGAGGAGACTGTTTTTGGGCTGY
112488 P C A ATGACGTGGCAGACCGACTGTTTTTGGGCTY
112488 T A A ATCACAGCCCAAAACAGTCTATTCTTACTTACTTCTTGGTAGATGTATACATCCAGCTTCTCTACAAGCATTTGCC
112488 T C A ATCACAGCCCAAAACAGTCGATTCTTACTTACTTCTTGGTAGATGTATACATCCAGCTTCTCTACAAGCATTTGCC

FIGURE 129G

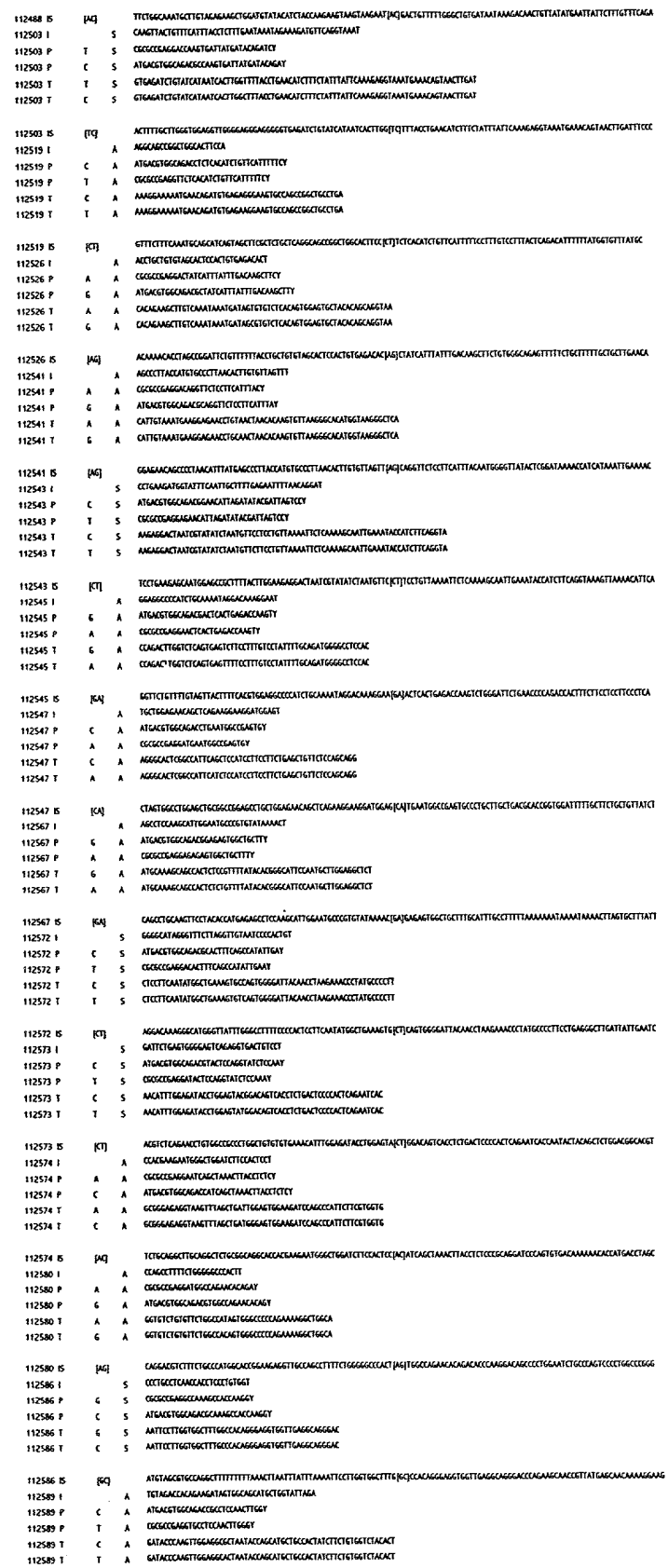
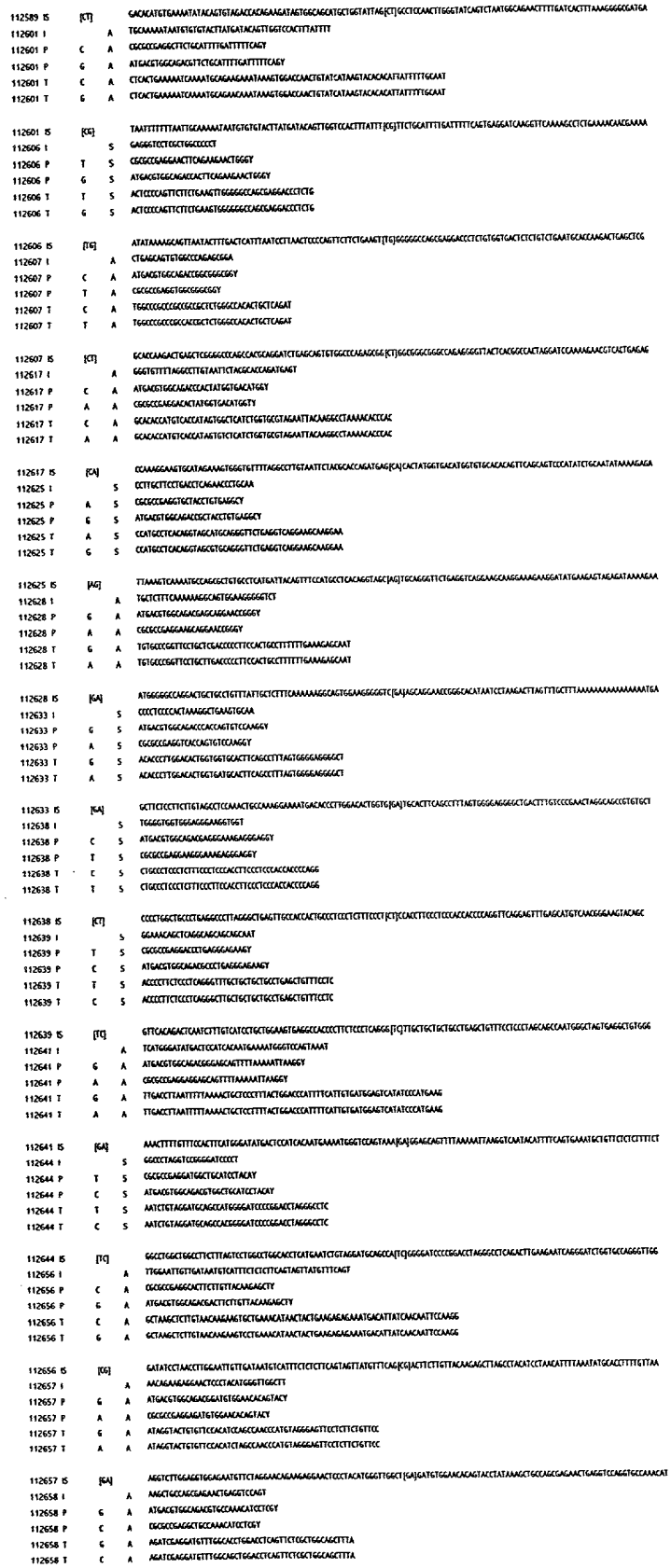
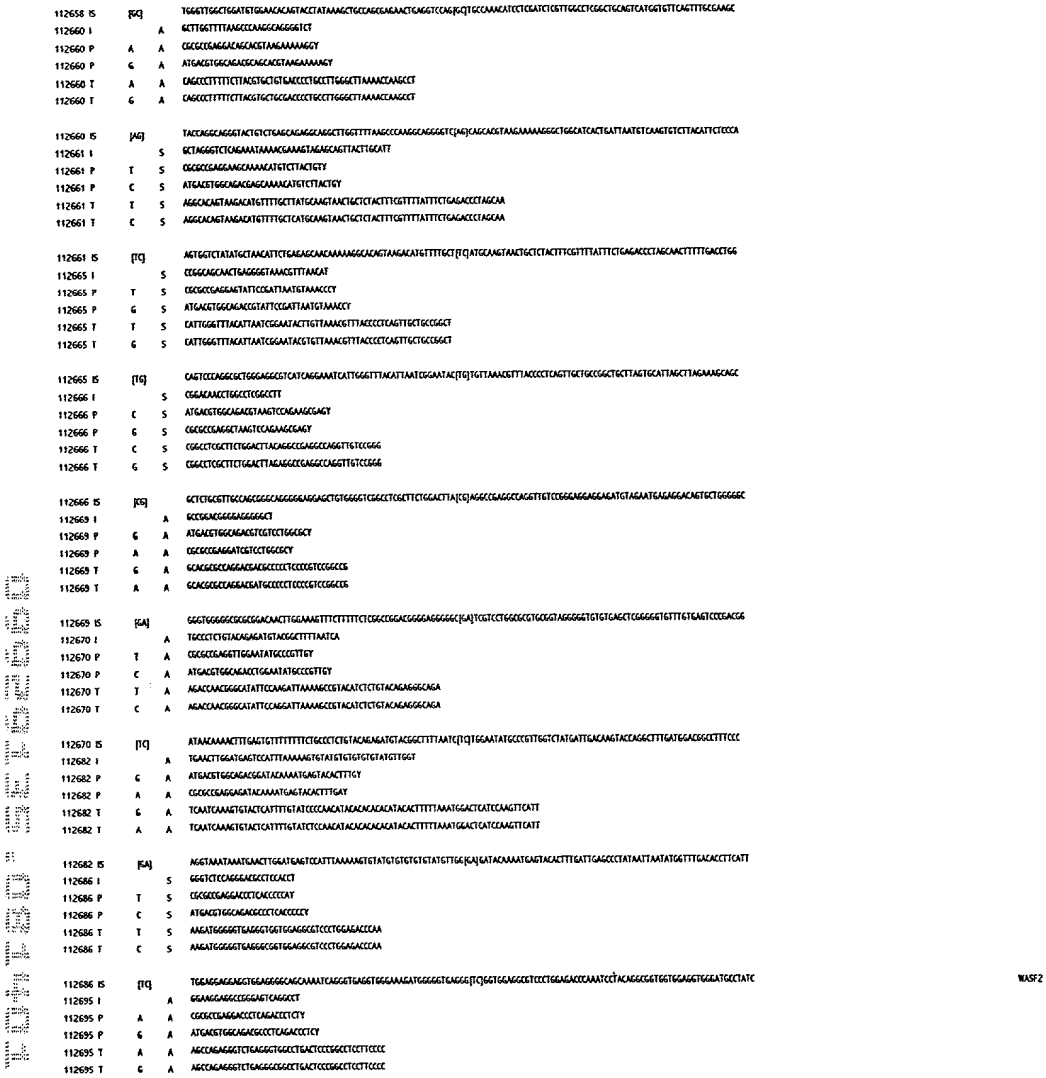
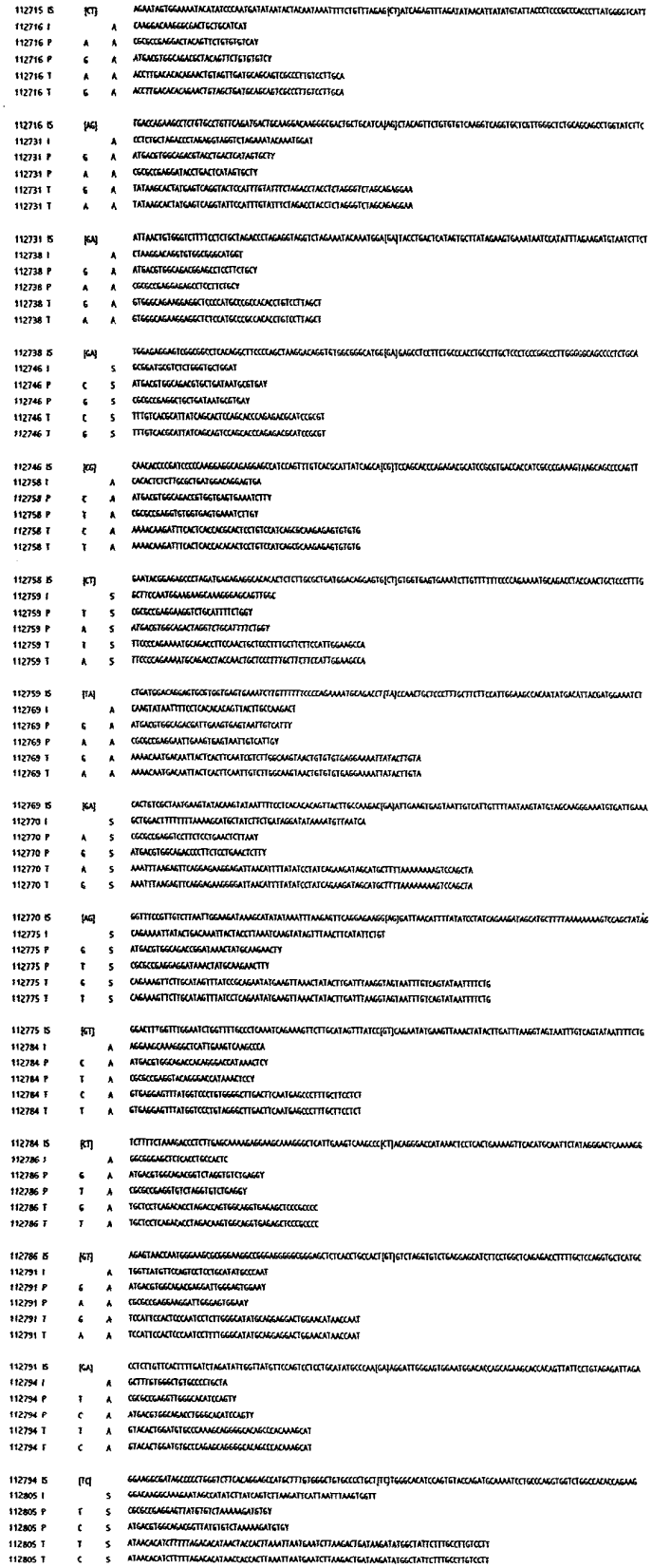

112488 IS [AG] TTCTGGCAAATGCTTGTACAGAAGCTGGATGTATACATCTACCAAGAAGTAAGTAAGAAT[AG]GACTGTTTTTGGGCTGTGATAATAAAGACAACTGTTATATGAATTATTCTTTGTTTCAGA
112503 I S CAAGTTACTGTTCATTTACCTCTTTGAATAAATAGAAAGATGTTCAGGTAAAT
112503 P T S CGGCCCGAGGACCAAGTGATTATGATACAGATCY
112503 P C S ATGACGTGGCAGACGCCAAGTGATTATGATACAGAT
112503 T T S GTGAGATCTGTATCATAATCACTTGGTTTTACCTGAACATCTTTCTATTTATTCAAAGAGGTAAATGAAACAGTAACTTGAT
112503 T C S GTGAGATCTGTATCATAATCACTTGGCTTTACCTGAACATCTTTCTATTTATTCAAAGAGGTAAATGAAACAGTAACTTGAT
112503 IS [TC] ACTTTTGCTTGGGTGGAGGTTGGGGAGAGGGAGGGGGTGAGATCTGTATCATAATCACTTGG[TC]TTTACCTGAACATCTTTCTATTTATTCAAAGAGGTAAATGAAACAGTAACTTGATTTCCC
112519 I A AGGCAGCCGGCTGGCACTTCCA
112519 P C A ATGACGTGGCAGACCTCTCACATCTGTTCATTTTTCY
112519 P T A CGGCCCGAGGTTCTCACATCTGTTCATTTTTCY
112519 T C A AAAGGAAAAATGAACAGATGTGAGAGGGAAGTGCCAGCCGGCTGCCTGA
112519 T T A AAAGGAAAAATGAACAGATGTGAGAAGGAAGTGCCAGCCGGCTGCCTGA
112519 IS [CT] GTTTCTTTCAAATGCAGCATCAGTAGCTTCGCTCTGCTCAGGCAGCCGGCTGGCACTTCC[CT]TCTCACATCTGTTCATTTTCCCTTTGTCCTTACTCAGACATTTTTTATGGTGTTTATGC
112526 I A ACCTGCTGTGTAGCACTCCACTGTGAGACACT
112526 P A A CGCGCCGAGGACTATCATTTATTTGACAAGCTTCY
112526 P G A ATGACGTGGCAGACGCTATCATTTATTTGACAAGCTTY
112526 T A A CACAGAAGCTTGTCAAATAAATGATAGTGTGTCTCACAGTGGAGTGCTACACAGCAGGTAA
112526 T G A CACAGAAGCTTGTCAAATAAATGATAGCGTGTCTCACAGTGGAGTGCTACACAGCAGGTAA
112526 IS [AG] ACAAAACACCTAGCCGGATTCTGTTTTTTACCTGCTGTGTAGCACTCCACTGTGAGACAC[AG]CTATCATTTATTTGACAAGCTTCTGTGGGCAGAGTTTTTCTGCTTTTTGCTGCTTGAACA
112541 I A AGCCCTTACCATGTGCCCTTAACACTTGTGTTAGTTT
112541 P A A CGCGCCGAGGACAGGTTCTCCTTCATTTACY
112541 P G A ATGACGTGGCAGACGCAGGTTCTCCTTCATTTAY
112541 T A A CATTGTAAATGAAGGAGAACCTGTAACTAACACAAGTGTTAAGGGCACATGGTAAGGGCTCA
112541 T G A CATTGTAAATGAAGGAGAACCTGCAACTAACACAAGTGTTAAGGGCACATGGTAAGGCTCA
112541 IS [AG] GGAGAACAGCCCCTAACATTTATGAGCCCTTACCATGTGCCTTAACACTTGTGTTAGTT[AG]CAGGTTCTCCTTCATTTACAATGGGGTTATACTCGGATAAAACCATCATAAATTGAAAAC
112543 I S CCTGAAGATGGTATTTCAATTGCTTTTGAGAATTTTAACAGGAT
112543 P C S ATGACGTGGCAGACGGGAACATTAGATATACGATTAGTCCY
112543 P T S CGCGCCGAGGAGAACATTAGATATACGATTAGTCCY
112543 T C S AAGAGGACTAATGGTATATCTAATGTTCCTCCTGTTAAAATTCTCAAAAGCAATTGAAATACCATCTTCAGGTA
112543 T T S AAGAGGACTAATGGTATATCTAATGTTCTTCCTGTTAAAATTCTCAAAAGCAATTGAAATACCATCTTCAGGTA
112543 IS [CT] TCCTGAAGAGCAATGGAAGCCGCTTTTACTTGGAAGAGGACTAATGGTATATCTAATGTTC[CT]TCCTGTTAAAATTCTCAAAAGCAATTGAAATACCATCTTCAGGTAAAGTTAAAACATTCA
112545 I A GGAGGCCCCATCTGCAAAAATAGGACAAAGGAAT
112545 P G A ATGACGTGGCAGACGACTCACTGAGACCAAGTY
112545 P A A CGCGCCGAGGAACTCACTGAGACCAAGTY
112545 T G A CCAGACTTGGTCTCAGTGAGTCTTCCTTTGTCCTATTTTGCAGATGGGGCCTCCAC
112545 T A A CCAGACTTGGTCTCAGTGAGTTTTCCTTTGTCCTATTTTGCAGATGGGGCCTCCAC
112545 IS [GA] GGTTCTGTTTTGTAGTTACTTTTCACGTGGAGGCCCCATCTGCAAAATAGGACAAAGGAA[GA]ACTCACTGAGACCAAGTCTGGGATTCTGAACCCCAGACCACTTTCTTCCTCCTTCCCTCA
112547 I A TGCTGGAGAACAGCTCAGAAGGAAGGATGGAGT
112547 P C A ATGACGTGGCAGACCTGAATGGCCGAGTGY
112547 P A A CCGCCCGAGGATGAATGGCCGAGTGY
112547 T C A AGGGCACTCGGCCATTCAGCTCCATCCTTCCTTCTGAGCTGTTCTCCAGCAGG
112547 T A A AGGGCACTCGGCCATTCATCTCCATCCTTCCTTCTGAGCTGTTCTCCAGCAGG
112547 IS [CA] CTAGTGGCCTGGAGCTGCGCCGGAGCCTGCTGGAGAACAGCTCAGAAGGAAGGATGGAG[CA]TGAATGGCCGAGTGCCCTGCTTGCTGACGGACCGGTGGATTTTTGCTTCTGCTGTTATCT
112567 I A AGCCTCCAAGCATTGGAATGCCCGTGTATAAAACT
112567 P G A ATGACGTGGCAGACGGAGAGTGGCTGCTTY
112567 P A A CGCGCCGAGGAGACAGTGGCTGCTTTY
112567 T G A ATGCAAAGCAGCCACTCTCCGTTTTATACACGGGCATTCCAATGCTTGGAGGCTCT
112567 T A A ATGCAAAGCAGCCACTCTCTGTTTTATACACGGGCATTCCAATGCTTGGAGGCTCT
112567 IS [GA] CAGCCTGCAAGTTCCTACACCATGAGAGCCTCCAAGCATTGGAATGCCCGTGTATAAAAC[GA]GAGAGTGGCTGCTTTGCATTTGCCTTTTTAAAAAAATAAAATAAAACTTAGTGCTTTATT
112572 I S GGGGCATAGGGTTTCTTAGGTTGTAATCCCCACTGT
112572 P C S ATGACGTGGCAGACGCACTTTCAGCCATATTGAY
112572 P T S CGCGCCGAGGACACTTTCAGCCATATTGAAT
112572 T C S CTCCTTCAATATGGCTGAAAGTGCCAGTGGGGATTACAACCTAAGAAACCCTATGCCCCTT
112572 T T S CTCCTTCAATATGGCTGAAAGTGTCAGTGGGGATTACAACCTAAGAAACCCTATGCCCCTT
112572 IS [CT] AGGACAAAGGGCATGGGTTATTTGGGCCTTTTCCCCACTCCTTCAATATGGCTGAAAGTG[CT]CAGTGGGGATTACAACCTAAGAAACCCTATGCCCCTTCCTGAGGCTTGATTATTGAATC
112573 I S GATTCTGAGTGGGGAGTCAGAGGTGACTGTCCT
112573 P C S ATGACGTGGCAGACGTACTCCAGGTATCTCCAAY
112573 P T S CGCGCCGAGGATACTCCAGGTATCTCCAAAY
112573 T C S AACATTTGGAGATACCTGGAGTACGGACAGTCACCTCTGACTCCCCACTCAGAATCAC
112573 T T S AACATTTGGAGATACCTGGAGTATGGACAGTCACCTCTGACTCCCCACTCAGAATCAC
112573 IS [CT] ACGTCTCAGAAACTGTGGCCGCCCTGGCTGTGTGTGAAACATTTGGAGATACCTGGAGTA[CT]GGACAGTCACCTCTGACTCCCCACTCAGAATCACCAATACTACAGCTCTGGACGGCAGT
112574 I A CCACGAAGAATGGGCTGGATCTTCCACTCCT
112574 P A A CGCGCCGAGGAATCAGCTAAACTTACCTCTCY
112574 P C A ATGACGTGGCAGACATCAGCTAAACTTACCTCTCY
112574 T A A GCGGGAGAGGTAAGTTTAGCTGATGGGAGTGGAAGATCCAGCCCATTCTCGTGGTG
112574 T C A GCGGGAGAGGTAAGTTTAGCTGATGGGAGTGGAAGATCCAGCCCATTCTCGTGGTG
112574 IS [AC] TCTGCAGGCTTGCAGGCTCTGCGGCCAGGCACCACGAAGAATGGGCTGGATCTTCCACTCC[AC]ATCAGCTAAACTTACCTCTCCCCGCAGGATCCCAGTGTGACAAAAAACACCATGACCTAGC
112580 I A CCAGCTTTTCTGGGGGCCCACTT
112580 P A A CGCGCCGAGGATGGCCAGAACACAGAY
112580 P G A ATGACGTGGCAGACGTGGCCAGAACACAGAY
112580 T A A GGTGTCTGTGTTCTGGCCATAGTGGCCCCCCAGAAAAGGCTGGCA
112580 T G A GGTGTCTGTGTTCTGGCCACAGTGGCCCCCCAGAAAAGGCTGGCA
112580 IS [AG] CAGGAGTCTTTCTGCCCATGGCACCGCAAGAGGTTGCCAGCCTTTTCTGGGGGCCCCACT[AG]TGGCCAGAACACAGACACCCAAGGACAGCCCCTGGAATCTGCCCAGTCCCCTGGCCCGGG
112586 I S CCCTGCCTCAACCACCTCCCTGTGGT
112586 P G S CGCGCCGAGGCCAAAGCCACCAAGGY
112586 P C S ATGACGTGGCAGACGCAAAGCCACCAAGGY
112586 T G S AATTCCTTGGTGGCTTTGGCCACAGGGAGGTGGTTGAGGCAGGGAC
112586 T C S AATTCCTTGGTGGCTTTGGCCACAGGGAGGTGGTTGAGGCAGGGAC
112586 IS [GC] ATGTAGCGTGCCAGGCTTTTTTTTTAAACTTAATTTATTTAAAATTCCTTGGTGGCTTTG[GC]CCACAGGGAGGTGGTTGAGGCAGGGACCCAGAAGCAACCCTTTATGAGCAACAAAAGGAAG
112589 I A TGTAGACCACAGAAGATAGTGGCAGCATGCTGGTATTAGA
112589 P C A ATGACGTGGCAGACCGCCTCCAACTTGGGY
112589 P T A CGCGCCGAGGTGCCTCCAACTTGGGY
112589 T C A GATACCCAAGTTGGAAGGCGCTAATACCAGCATGCTGCCACTATCTTCTGTGGTCTACACT
112589 T T A GATACCCAAGTTGGAAGGCACTAATACCAGCATGCTGCCACTATCTTCTGTGGTCTACACT

FIGURE 129G







Unpublished

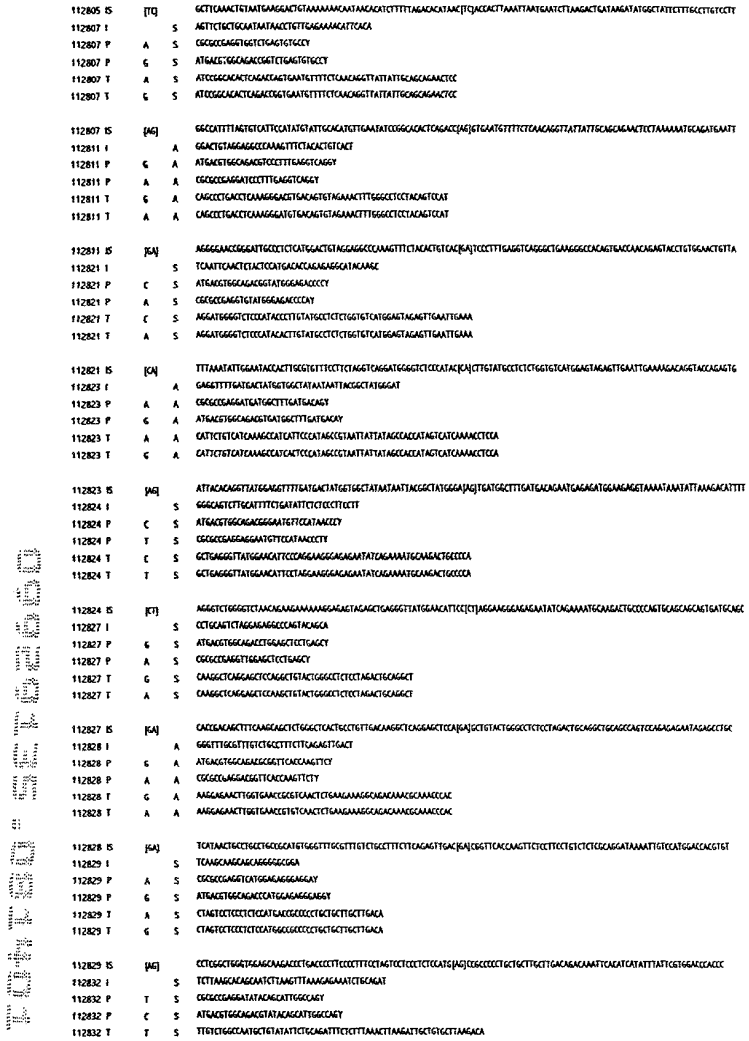

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112807 I S AGTTCTGCTGCAATAATAACCTGTTGAGAAAACATTCACA
112807 P A S CGCGCCGAGGTGGTCTGAGTGTGCCY
112807 P G S ATGACSTGGCAGACCGGTCTGAGTGTGCCY
112807 T A S ATCCGGCACACTCAGACCAGTGAATGTTTTCTCAACAGGTTATTATTGCAGCAGAACTCC
112807 T G S ATCCGGCACACTCAGACCGGTGAATGTTTTCTCAACAGGTTATTATTGCAGCAGAACTCC
112807 IS [AG] GGCCATTTTAGTGTCATTCCATATGTATTGCACATGTTGAAATATCCGGCACACTCAGACC[AG]GTGAATGTTTTCTCAACAGGTTATTATTGCAGCAGAACTCCTAAAAAATGCAGATGAATT
112811 I A GGACTGTAAGAGGCCCAAAGTTTCTACACTGTCACT
112811 P G A ATGACGTGGCAGACGTCCCTTTGAGGTCAGGY
112811 P A A CGCGCCGAGGAYCCCTTTGAGGTCAGGY
112811 T G A CAGCCCTGACCTCAAAGGGACGTGACAGTGTAGAAACTTTGGGCCTCCTACAGTCCAT
112811 T A A CAGCCCTGACCTCAAAGGGATGTGACAGTGTAGAAACTTTGGGCCTCCTACAGTCCAT
112811 IS [GA] AGGGGAACGGGGATTGCCCTCTCATGGACTGTAGGAGGCCCAAAGTTTCTACACTGTCAC[GA]TCCCTTTGAAGTCAGGGCTGAAGGGCCACAGTGACCAACAGAGTACCTGTGGAACTGTTA
112821 I S TCAATTCAACTCTACTCCATGACACCAGAGAGGCATACAAGC
112821 P C S ATGACGTGGCAGACGGTATGGGAGACCCCY
112821 P A S CGCGCCGAGGTGTATGGGAGACCCCAY
112821 T C S AGGATGGGGTCTCCCATACCCTTGTATGCCTCTCTGGTGTCATGGAGTAGAGTTGAATTGAAA
112821 T A S AGGATGGGGTCTCCCATACACTTGTATGCCTCTCTGGTGTCATGGAGTAGAGTTGAATTGAAA
112821 IS [CA] TTTAAATATTGGAATACCACTTGCGTGTTCCTTCTAGGTCAGGATGGGGTCTCCCATAC[CA]CTTGTATGCCTCTCTGGTGTCATGGAGTAGAGTTGAATTGAAAAGACAGGTACCAGAGTG
112823 I A GAGGTTTTGATGACTATGGTGGCTATAATAATTACGGCTATGGGATAGGT
112823 P A A CGCGCCGAGGATGATGGCTTTGATGACAGY
112823 P G A ATGACGTGGCAGACGTGATGGCTTTGATGACAY
112823 T A A CATTCTGTCATCAAAGCCATCATTCCCATAGCCGTAATTATTATAGCCACCATAGTCATCAAAACCTCCA
112823 T G A CATTCTGTCATCAAAGCCATCACTCCCATAGCCGTAATTATTATAGCCACCATAGTCATCAAAACCTCCA
112823 IS [AG] ATTACACAGGTTATGGAAGTTTTGATGACTATGGTGGCTATAATAATTACGGCTATGGGA[AG]TGATGGCTTTGATGACAGAATGAGAGATGGAAGAGGTAAAATAAATATTAAAGACATTTT
112824 I S GGGCAGTCTTGCATTTTCTGATATTCTCTCCCTTCCTT
112824 P C S ATGACGTGGCAGACGGGAATGTTCCATAACCCY
112824 P T S CGCGCCGAGGAGGAATGTTCCATAACCCTY
112824 T C S GCTGAGGGTTATGGAACATTCCCAGGAAGGCAGAGAATATCAGAAAATGCAAGACTGCCCCA
112824 T T S GCTGAGGGTTATGGAACATTCCTAGCAAGGCAGAGAATATCAGAAAATGCAAGACTGCCCCA
112824 IS [CT] AGGGTCTGGGGTCTAACAGAAGAAAAAAGGAGAGTACAGCTGAGGGTTATGGAACATTCC[CT]AGGAAGGGAGAGAGAATATCAGAAAATGCAAGACTGCCCCAGTGCAGCAGCAGTGATGCAGC
112827 I S CCTGCAGTCTAGGAGAGAGCCCAGTACAGCA
112827 P G S ATGACGTGGCAGACCTGGAGCTCCTGAGCY
112827 P A S CGCGCCGAGGTTGGAGCTCCTGAGCY
112827 T G S CAAGGCTCAGGAGCTCCAGGCTGTACTCGGGCCTCTCCTAGACTGCAGGCT
112827 T A S CAAGGCTCAGGAGCTCCAAGCTGTACTGGGCCTCTCCTAGACTGCAGGCT
112827 IS [GA] CACCGACAGCTTTCAAGCAGCTCTGGGCTCACTGCCTGTTGACAAGGCTCAGGAGCTCCA[GA]GCTGTACTGGGCCTCTCCTAGACTGCAGGCTGCAGCCAGTCCAGACAGAATAGAGCCTGC FLI23338
112828 I A GGGTTTGCGTTTGTCTGCCTTTCTTCAGAGTTGACT
112828 P G A ATGACGTGGCAGACGCGGTTCACCAAGTTCY
112828 P A A CGCGCCAAGGACGGTTCACCAAGTTCTY
112828 T G A AAGGAGAACTTGGTGAACCGCGTCAACTCTGAAGAAAGGCAGACAAACGCAAACCCAC
112828 T A A AAGGAGAACTTGGTGAACCGTGTCAACTCTGAAGAAAGGCAGACAAACGCAAACCCAC
112828 IS [CA] TCATAACTGCCTGCCTGCCGCCATGTGGGTTTGCGTTTGTCTGCCTTTCTTCAGAGTTGAC[GA]CGGTTCACCAAGTTCTCCTTCCTGTCTCTCCGCAGGATAAAATTGTCCATGGACCACGTGT
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112829 P A S CGCGCCAAGGTCATGGAGAAGGAAGAY
112829 P G S ATGACGTGGCAGACCCATGGAGAAGGAAGY
112829 T A S CTAGTCCTCCCTCTCCATCACCGCCCCCTGCTGCTTGCTTGACA
112829 T G S CTAGTCCTCCCTCTCCATGGCCGCCCCCTGCTGCTTGCTTGACA
112829 IS [AG] CCTCGGCTGGGTGAGAGCAAGACCCTGACCCCTTCCCCTTTCCTAGTCCTCCCTCTCCATG[AG]CCGCCCCCTGCTGCTTGCTTGACAGACAAATTCACATCATATTTATTCGTGGACCCACCC
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112832 P T S CGCGCCGAGGATATACAGCATTGGCCAGY
112832 P C S ATGACGTGGCAGACGTATACAGCATTGGCCAGY
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112833 T C S CCCTGGAACTCCTGGAGGCCCTGGGGCACCAGGTTTCCCTGGCA
112833 T T S CCCTGGAACTCCTGGAGGTCCTGGGGCACCAGGTTTCCCTGGCA
112833 IS [CT] CAAGTACAACTGTCATGAAAGTAACTGCCAACTCACCGGTCCCCTGGAACTCCTGGAGG[CT]CCTGGGGCACCAGGTTTCCCTGGCAAGGCAAATTGAAGAGAAATGTTAGGAGCCAAATT
112841 I A TCCTTGCAACAAAAAAGTCACTCATATATCTGAACATCTAAAAC
112841 P T A CGCGCCGAGGTAATTGATGAAGGTTGAGTGGY
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112843 P C S ATGACGTGGCAGACGTGTTGGCATTACATTTAACCY
112843 P T S CGCGCCGAGGATGTTGGCATTACATTTAACCY
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112843 IS [CT] GGTGAGGTCAGGAATTGGAAGGTCCCAGAAGAGGTGAGGTGGTTAAATGTAATGCCAACA[CT]GGAGGTGGGTCCCTCCCAATCCCAAGCCATCTGACCTTTCTCTCCCTCTTCCCACAGAG
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112849 P C S ATGACGTGGCAGACGTGTTGTTATATTAGTAGTTAACAAGCY
112849 P T S CGCGCCGAGGATGTTGTTATATTAGTAGTTAACAAGCY
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FIGURE 129G

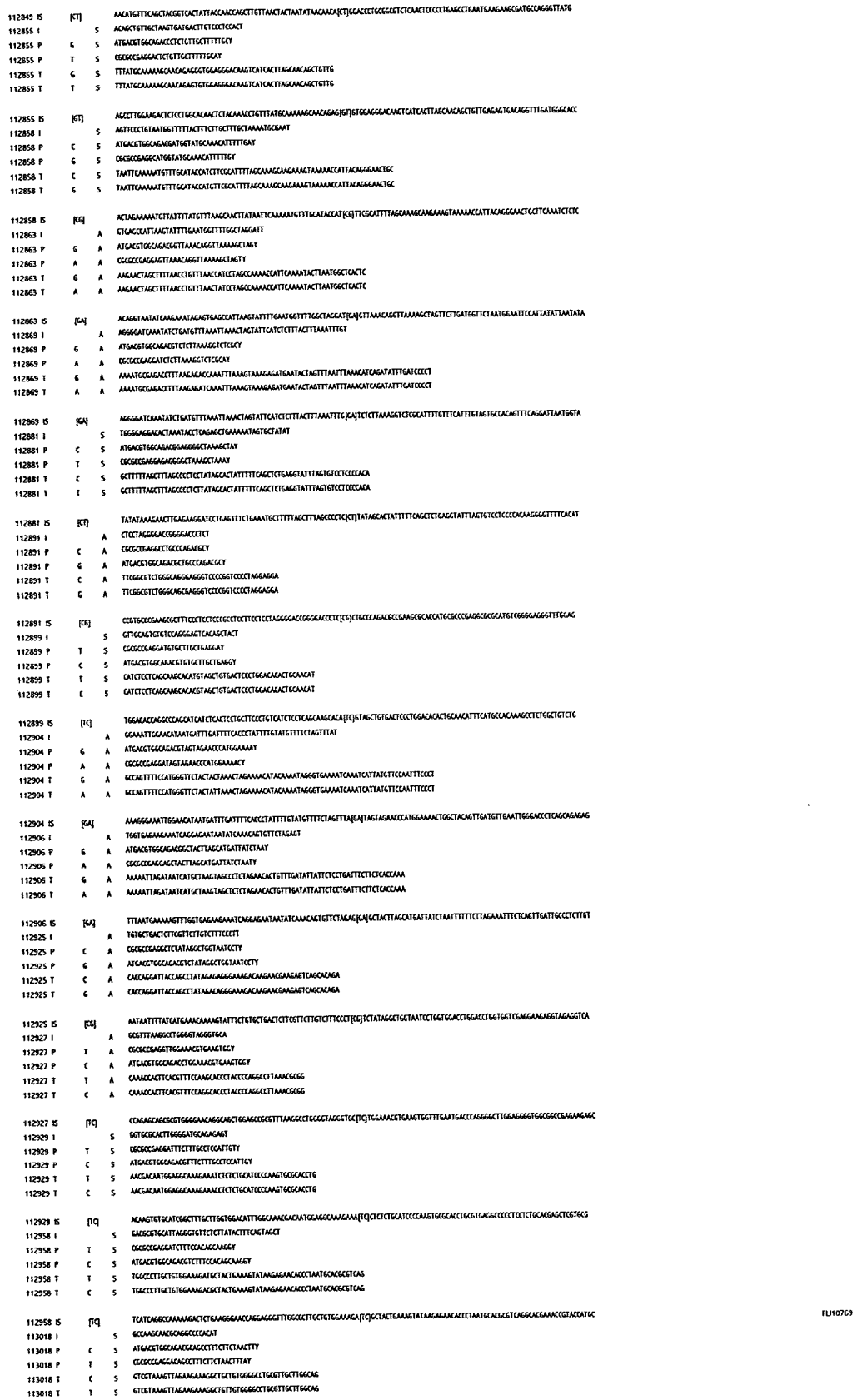
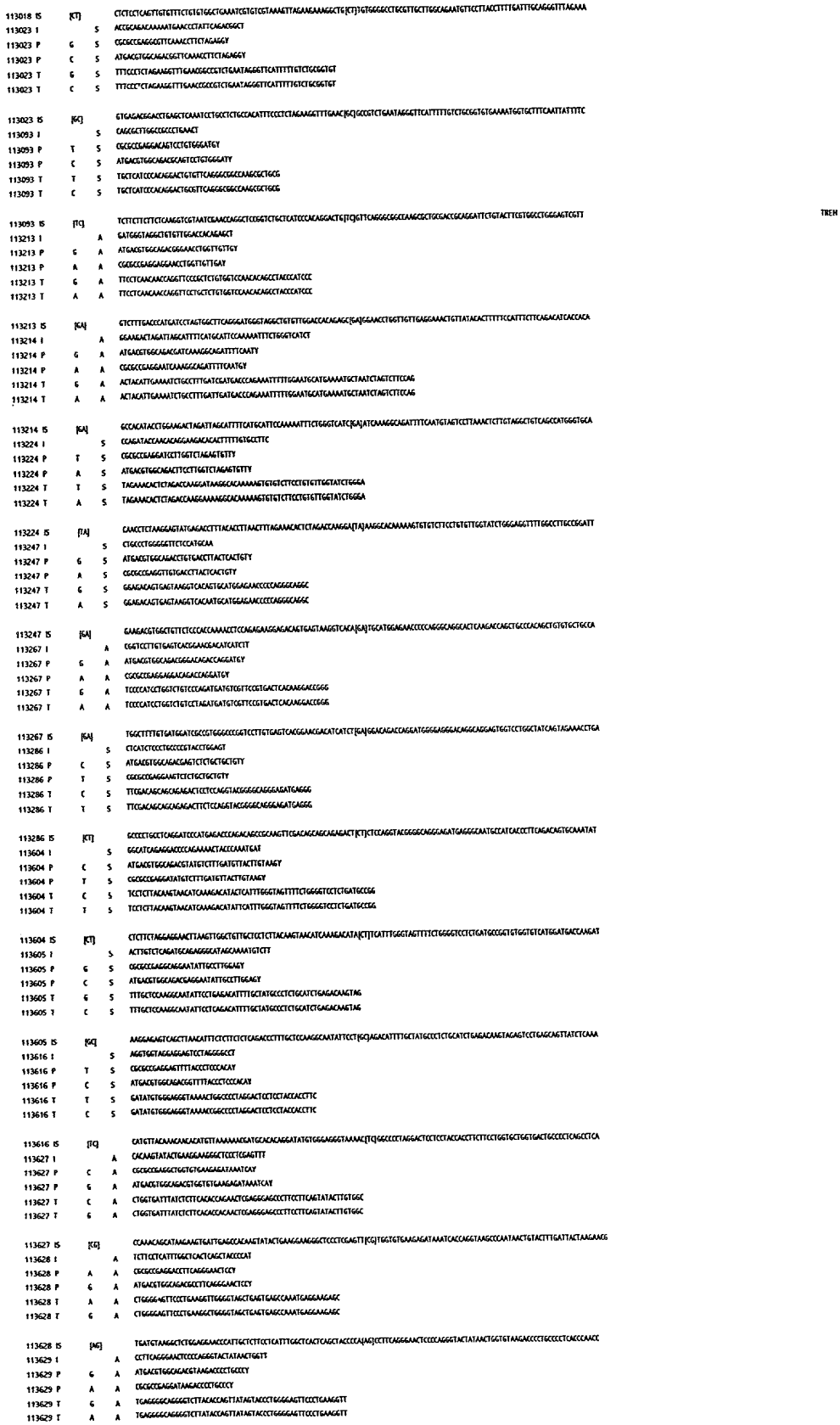
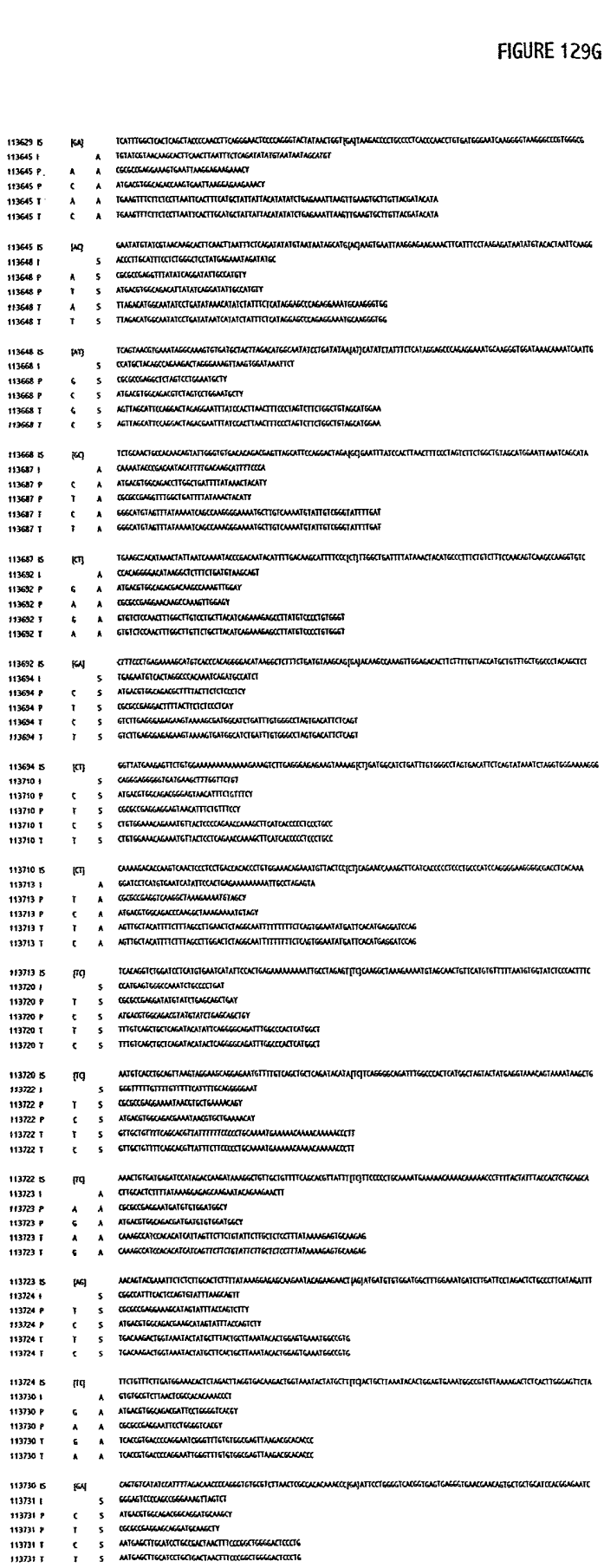


FIGURE 129G





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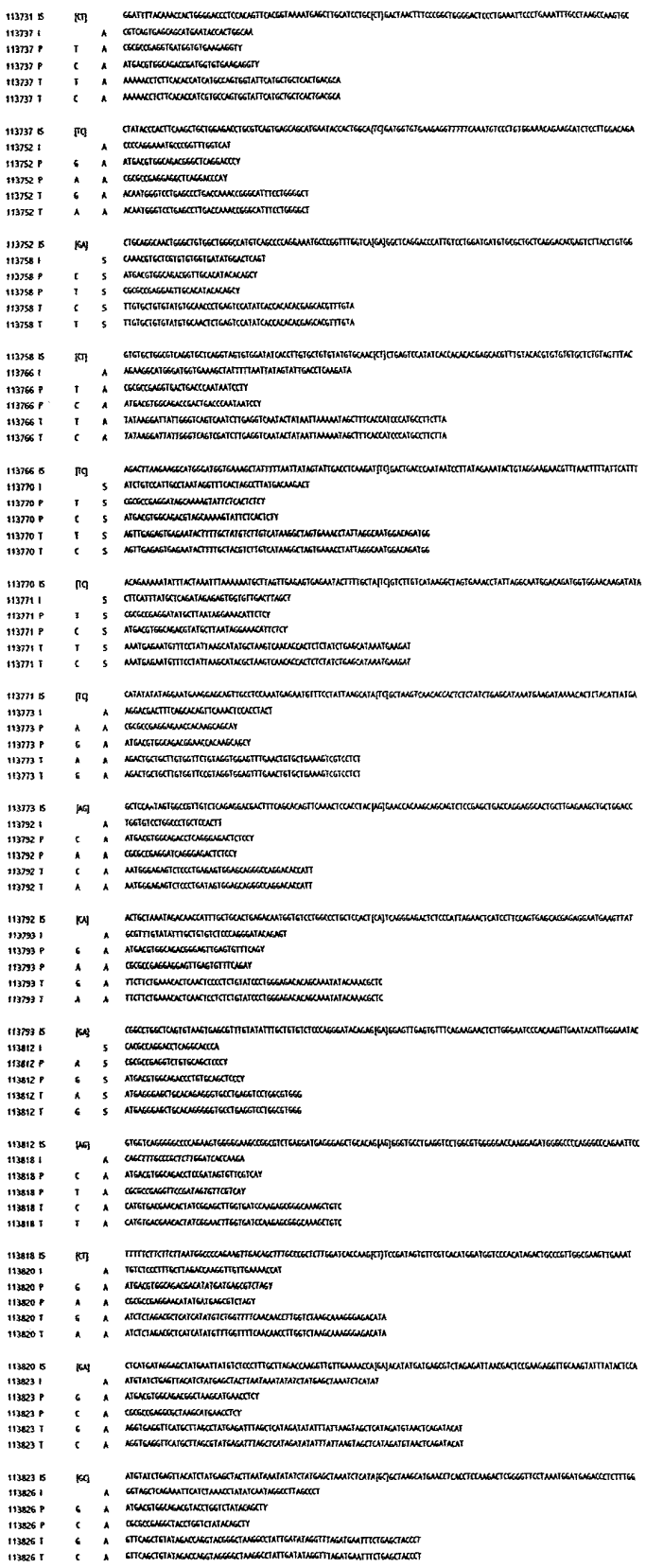
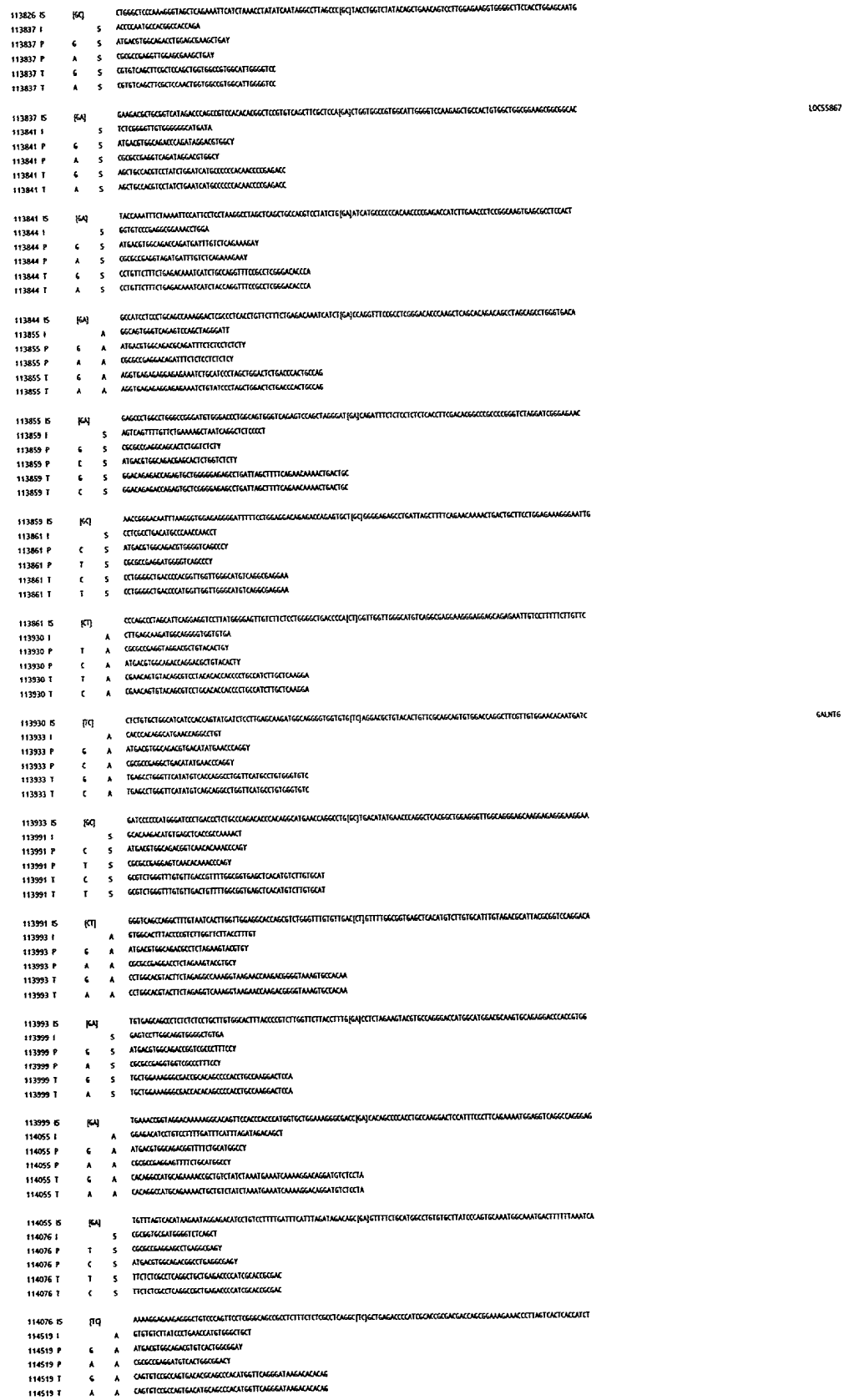
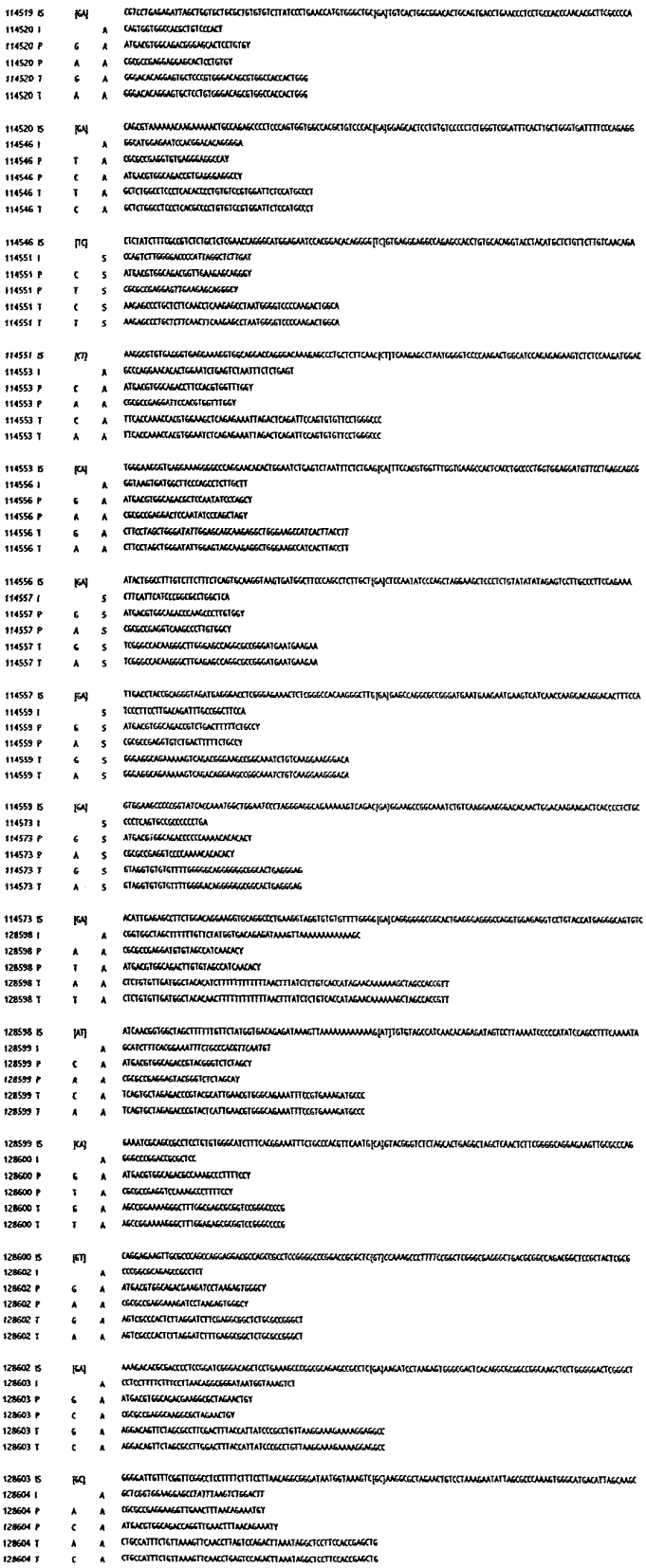
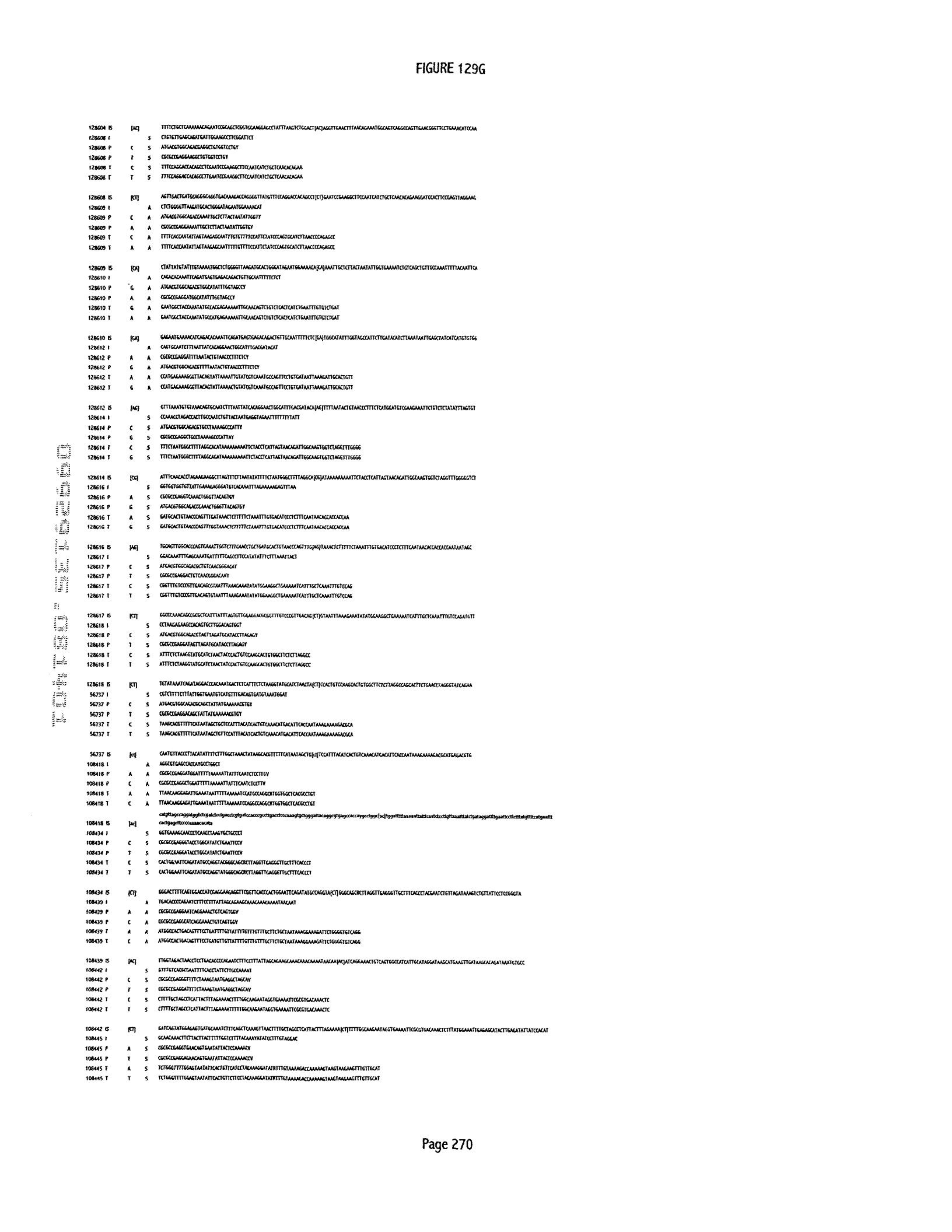
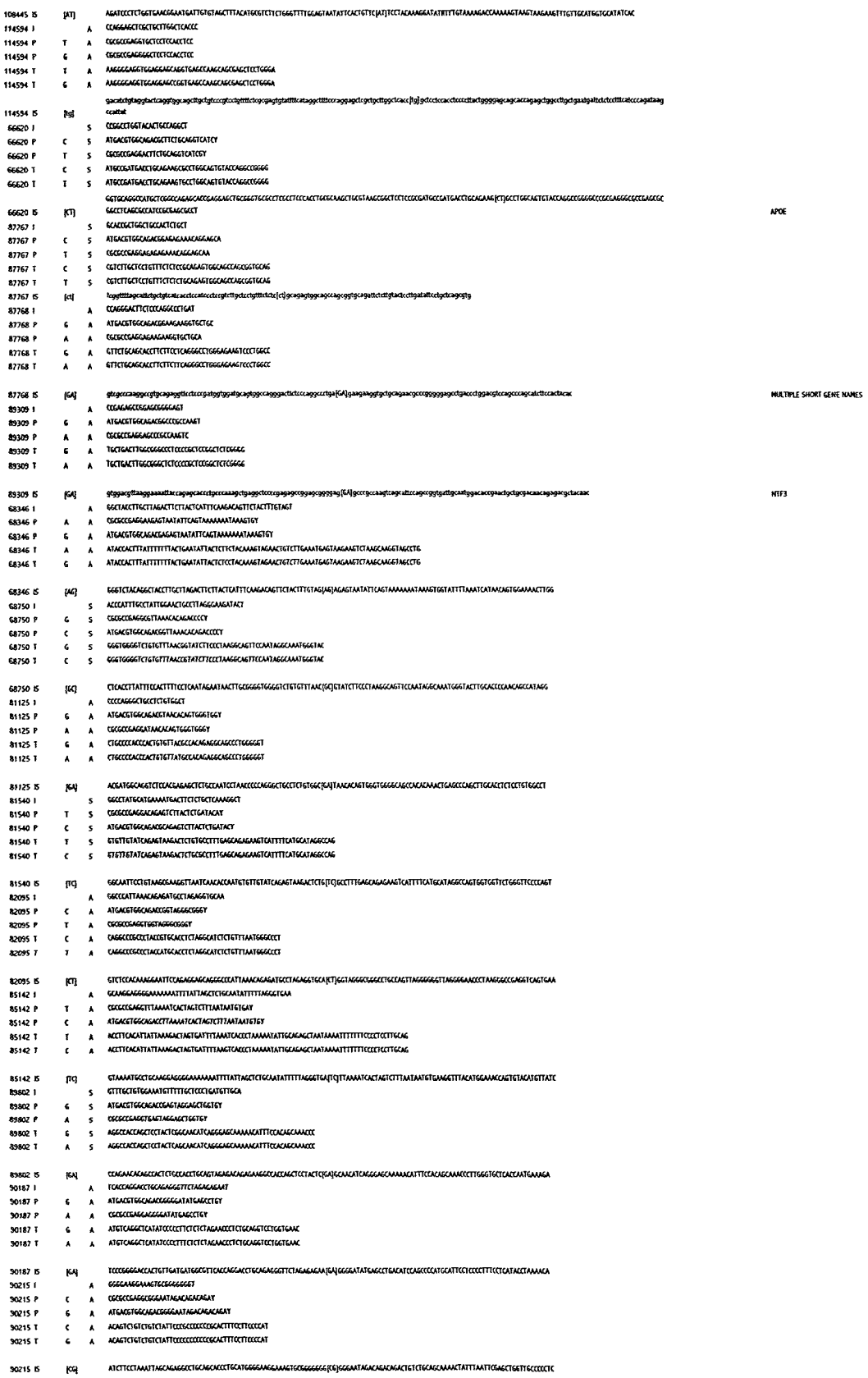


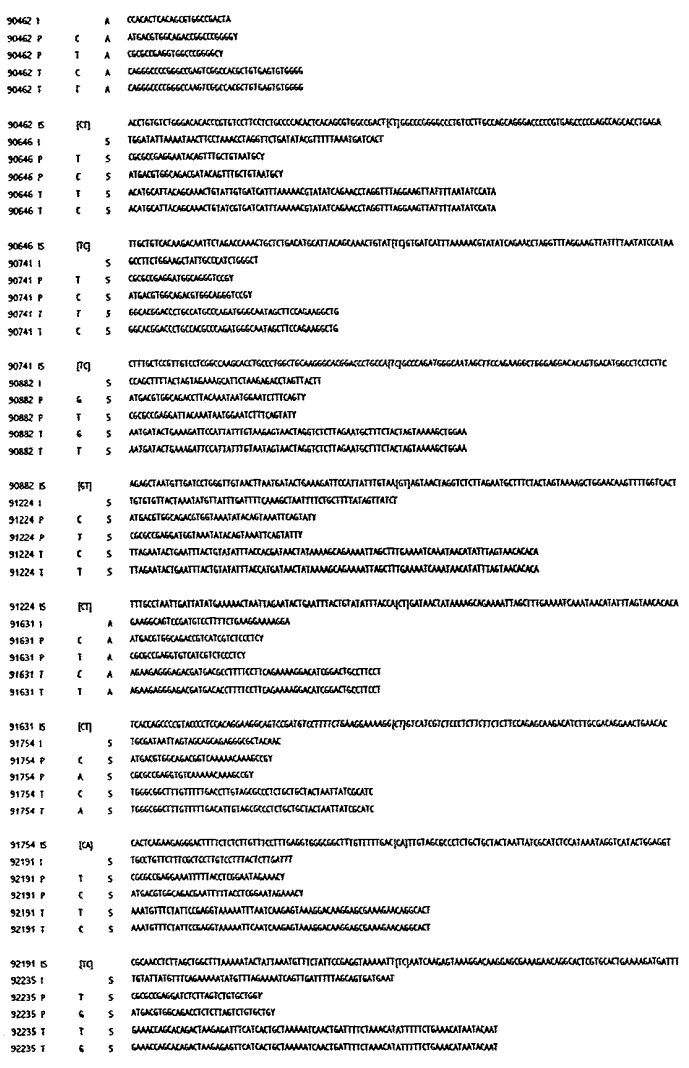
FIGURE 129G











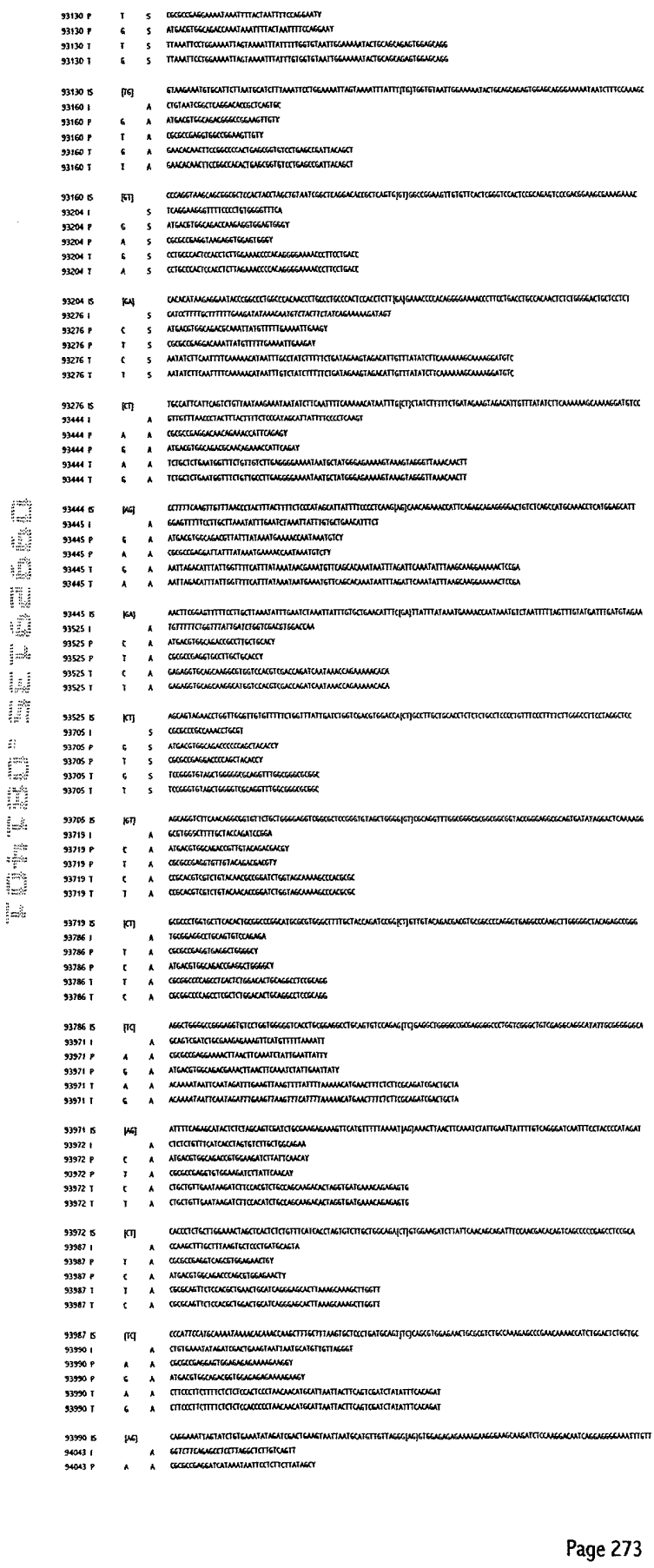
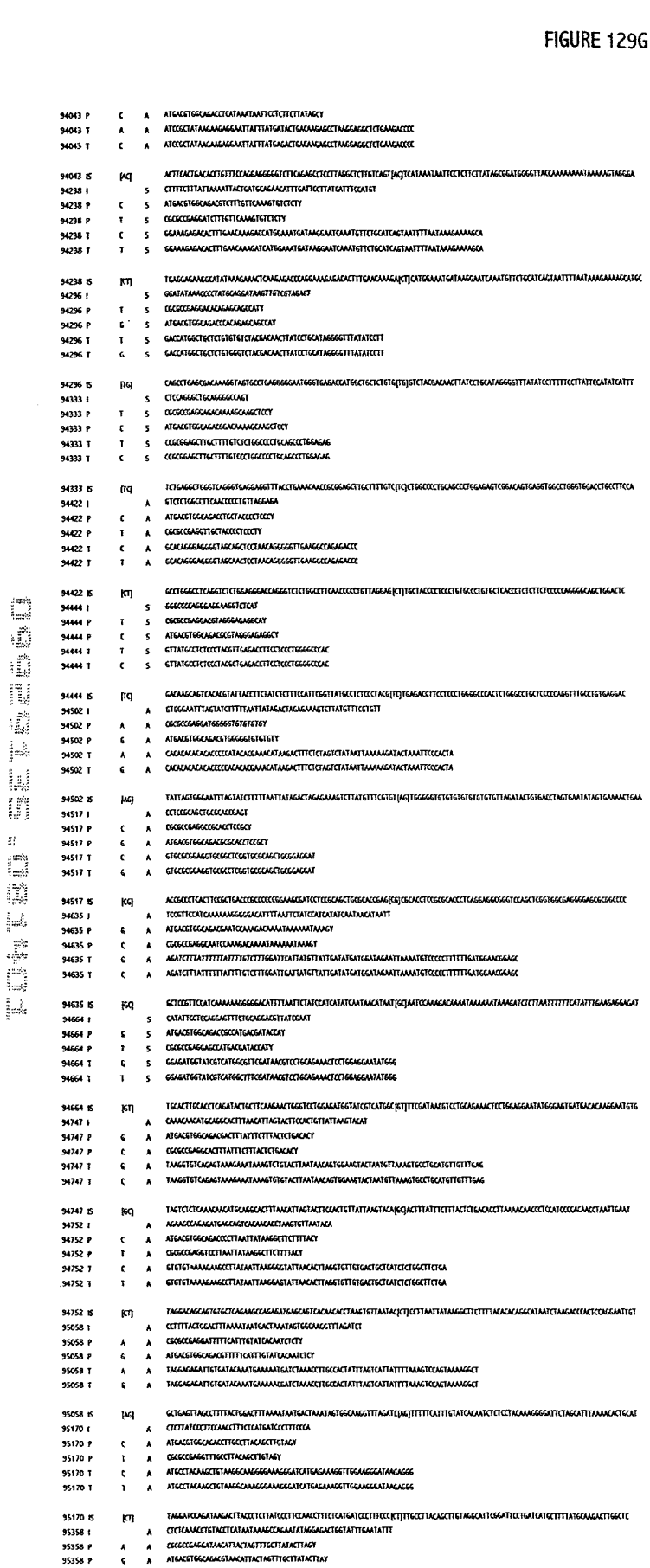
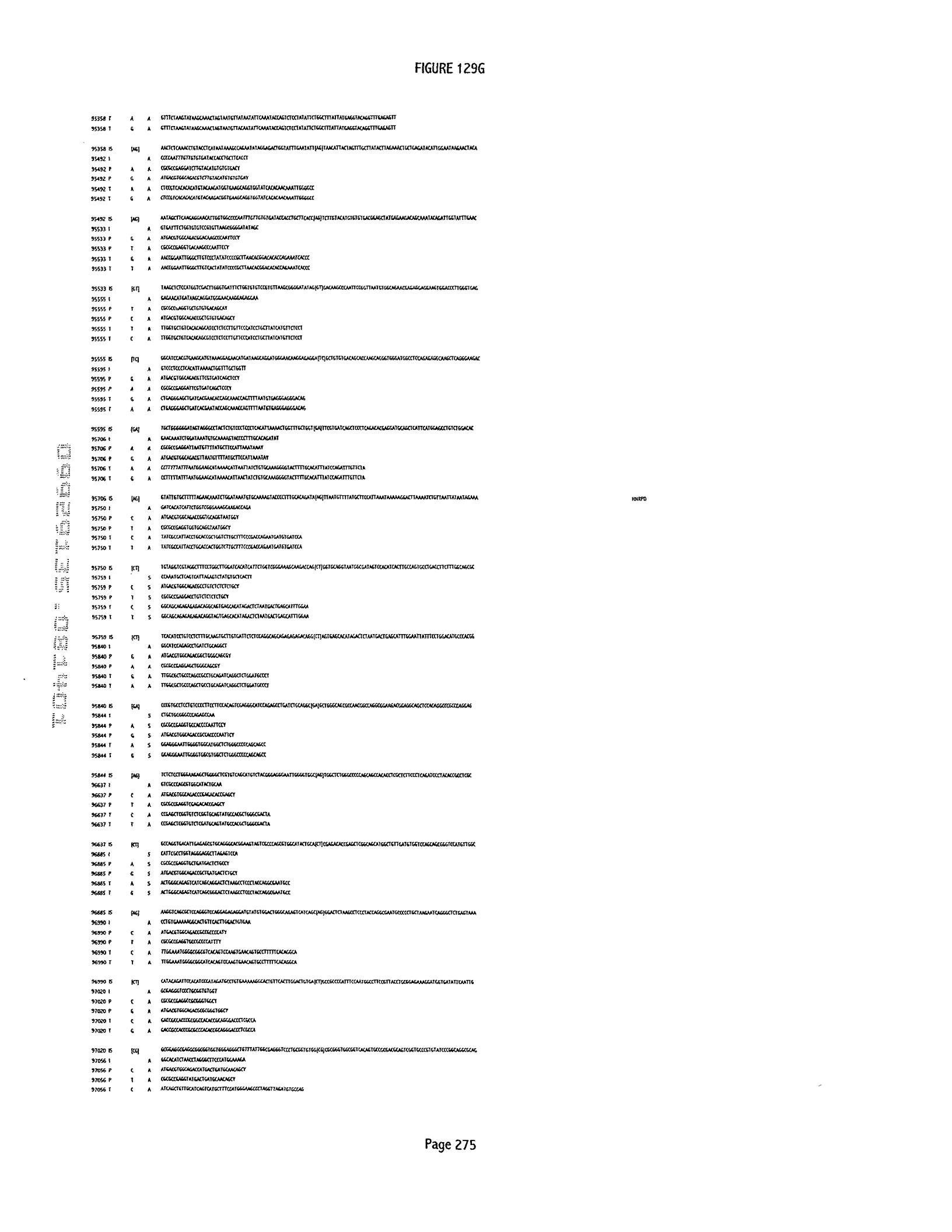


FIGURE 129G




95358 T A A GTTTCTAAGTATAAGCAAACTAGTAATGTTATAATATTCAAATACCAGTCTCCTATATTCTGGCTTTATTATGAGGTACAGGTTTGAGAGTT
95358 T G A GTTTCTAAGTATAAGCAAACTAGTAATGTTACAATATTCAAATACCAGTCTCCTATATTCTGGCTTTATTATGAGGTACAGGTTTGAGAGTT
95358 IS [AG] AACTCTCAAACCTGTACCTCATAATAAAGCCAGAATATAGGAGACTGGTATTTGAATATT[AG]TAACATTACTAGTTTGCTTATACTTAGAAACTGCTGAGATACATTGGAATAAGAACTACA
95492 I A CCCCAATTTGTTGTGTGATACCACCTGCTTCACCT
95492 P A A CGCGCCGAGGATCTTGTACATGTGTGTGCACY
95492 P G A ATGACGTGGCAGACGTCTTGTACATGTGTGTGAY
95492 T A A CTCCGTCACACACATGTACAAGATGGTGAAGCAGGTGGTATCACACAACAAATTGGGGCC
95492 T G A CTCCGTCACACACATGTACAAGACGGTGAAGCAGGTGGTATCACACAACAAATTGGGGCC
95492 IS [AG] AATAGCTTCAAGAGGAAACATTGGTGGCCCCCAATTTGTTGTGTGATACCACCTGCTTCACC[AG]TCTTGTACATGTGTGTGACGGAGCTATGAGAAGACAGCAAATACAGATTGGTATTTGAAC
95533 I A GTGATTTCTGGTGTGTCCGTGTTAAGCGGGGATATAGC
95533 P G A ATGACGTGGCAGACGGACAAGCCCAATTCCY
95533 P T A CGCGCCGAGGTGACAAGCCCAATTCCY
95533 T G A AACCGGAATTGGGCTTGTCCCTATATCCCCGCTTAACACGGACACACCAGAAATCACCC
95533 T T A AACCGGAATTGGGCTTGTCACTATATCCCCGCTTAACACGGACACACCAGAAATCACCC
95533 IS [GT] TAAGCTCTCCATGGTCGACTTGGGTGATTTCTGGTGTGTCCGTGTTAAGCGGGGATATAG[GT]GACAAGCCCAATTCCGGTTAATGTGGCAGAACGACAGGAGGAAGTGGACCCTTGGGTGAG
95555 I A GAGAACATGATAAGCAGGATGGGAACAAGGAGAGGAA
95555 P T A CGCGCCGAGGTGCTGTGTGACAGCAY
95555 P C A ATGACGTGGCAGACCGCTGTGTGACAGCY
95555 T T A TTGGTGCTGTCACACAGCATCCTCTCCTTGTTCCCATCCTGCTTATCATGTTCTCCT
95555 T C A TTGGTGCTGTCACACAGCGTCCTCTCCTTGTTCCCATCCTGCTTATCATGTTCTCCT
95555 IS [TC] GGCATCCACGTGAAGCATGTAAAGGAGAAACATGATAAGCAGGATGGGAACAAGGAGAGGA[TC]GCTGTGTGACACCACCAAGCACGGTGGGATGGCCTCCAGACAGGCAAGCTCAGGGAAGAC
95595 I A GTCCCTCCCTCACATTAAAACTGGTTTGCTGGTT
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95595 IS [GA] TGCTGGGGGGATAGTAGGGCCTACTCTGTCCCTCCCTCACATTAAAACTGGTTTGCTGGT[GA]TTCGTGATCAGCTCCCTCAGACACGAGGATGCAGCTCATTCATGCAGCCTGTCTGGACAC
95706 I A GAACAAATCTGGATAAATGTGCAAAAGTACCCCTTTGCACAGATAT
95706 P A A CGCGCCGAGGATTAATGTTTTATGCTTCCATTAAATAAAY
95706 P G A ATGACGTGGCAGACGTTAATGTTTTATGCTTCCATTAAATAY
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95750 I A GATCACATCATTCTGGTCGGCAAAGCAAGACCAGA
95750 P C A ATGACGTGGCAGACCGGTGCAGGTAATGGY
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95750 IS [CT] TGTAGGTCGTAGGCTTTCCTGGCTTGGATCACATCATTCTGGTCGGGAAAGCAAGACCAG[CT]GGTGCAGGTAATGGCGATAGTCCACATCACTTGCCAGTGCCTGACCTTCTTTGGCAGCGC
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95759 P C S ATGACGTGGCAGAGCCTGTCTCTCTCTGCY
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95759 IS [CT] TCACATCCTGTCCTCTTTGCAAGTGCTTGTGATTCTCTCCAGGCAGCAGAGAGAGACAGG[CT]AGTGAGCACATAGACTCTAATGACTGAGCATTTGGAATTATTTCCTGGACATGCCCACGG
95840 I A GGCATCCAGAGCCTGATCTGCAGGCT
95840 P G A ATGACGTGGCAGACGGCTGGGCAGCGY
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95844 I S CTGCTGCGGGCCCAGAGCCAA
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95637 I A GTCGCCCAGGGTGGCATACTGCAA
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95637 P T A CGCGCCGAGGTCCAGACACCCAGCY
95637 T C A CCGAGCTCGGTGTCTCGGTGCAGTATGCCACGCTGGGCGACTA
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95637 IS [CT] GCCAGGTGACATTGAGAAGCGTGCAGGGCACGGAAGTAGTCGCCCAGCGTGGCATACTGCA[CT]CGAGACACCGAGCTCGGCAGCATGGCTGTTGATGTGGTCCAGCAGCGGGTCCATGTTGGC
96685 I S CATTCGCCTGGTAGGGAGGCTTAGAGTCCA
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96685 T G S ACTGGGCAGAGTCATCAGCGGGAACTCTAAGCCTCCCTACCAGGGAATGCC
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96990 T C A TTGGAAATGGGGCGGCGTCACAGTCCAAGTGAACAGTGCCTTTTTCACAGGCA
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96990 IS [CT] CATACAGATTCCACATCCCATAGATGCCTGTGAAAAAGGCACTGTTCACTTGGACTGTGA[CT]GCCGCCCCATTTCCAATGGCCTTCCGTTACCTGCGGAGAAAGGATGGTGATATTCAATTG
97020 I A GCGAGGGTCCCTGCGGTGTGGT
97020 P C A CGCGCCGAGGCCGCGGGTGCCY
97020 P G A ATGACGTGGCGACGCGGCGGGTGGCY
97020 T C A GACCGGCCACCCGCGCCACACCGCAGGGACCCTCGCCA
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97056 I A GGCACATCTAACCTAGGGCTTCCCATGCAAAGA
97056 P C A ATGACGTGGCAGACCATGACTGATGCAACAGCY
97056 P T A CGCGCCGAGGTATGACTGATGCAACAGCY
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FIGURE 129G

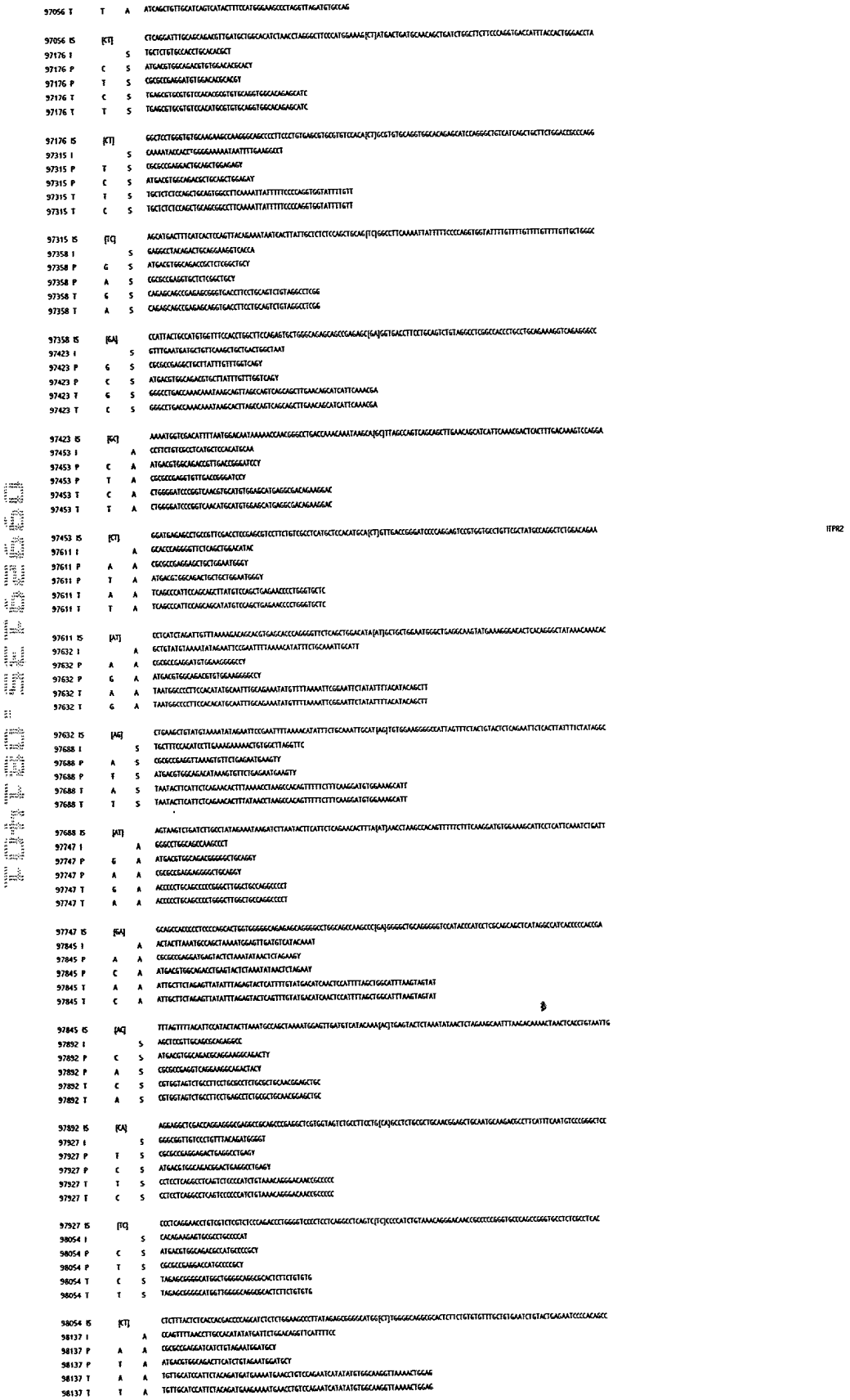


FIGURE 129G

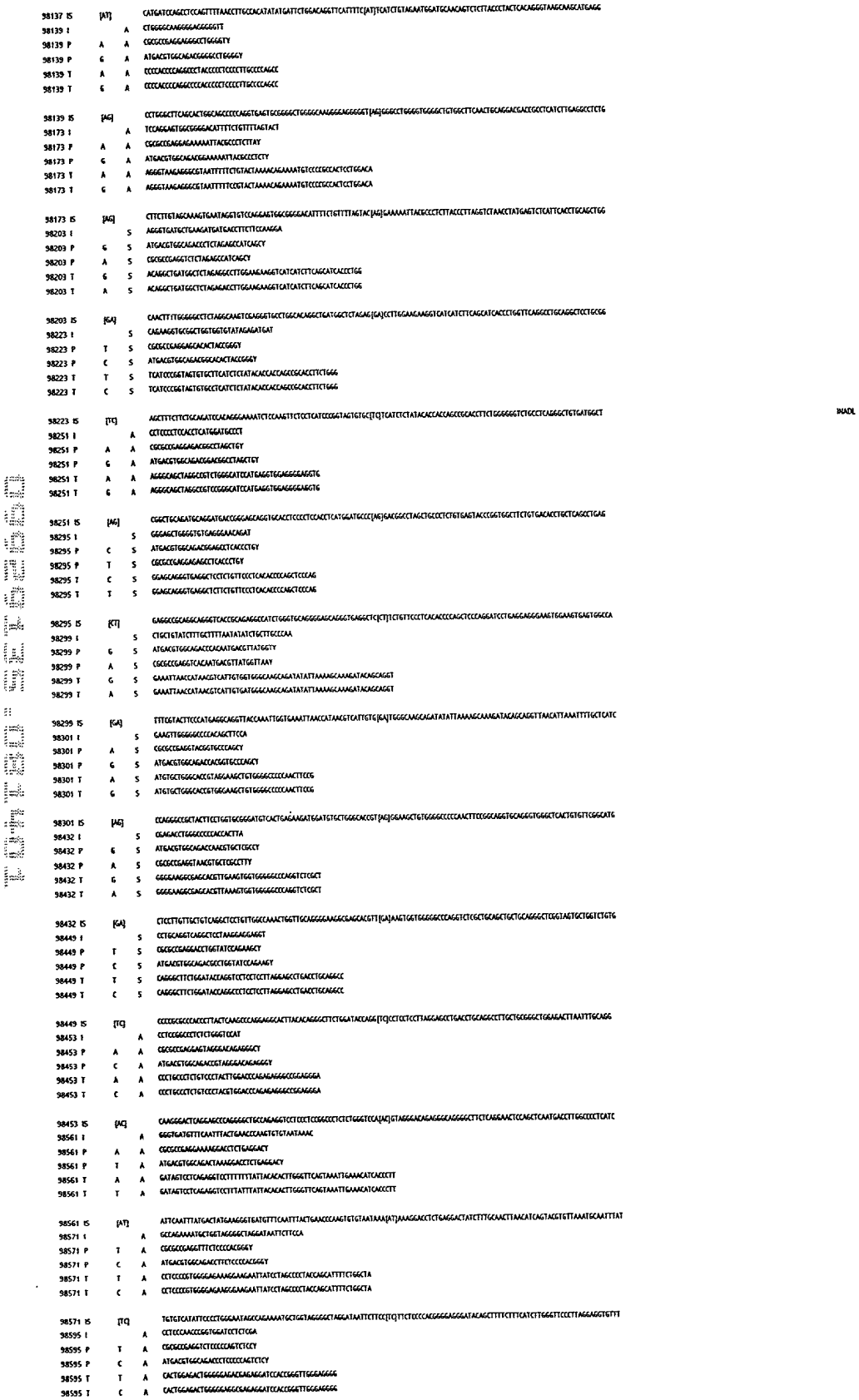


FIGURE 129G

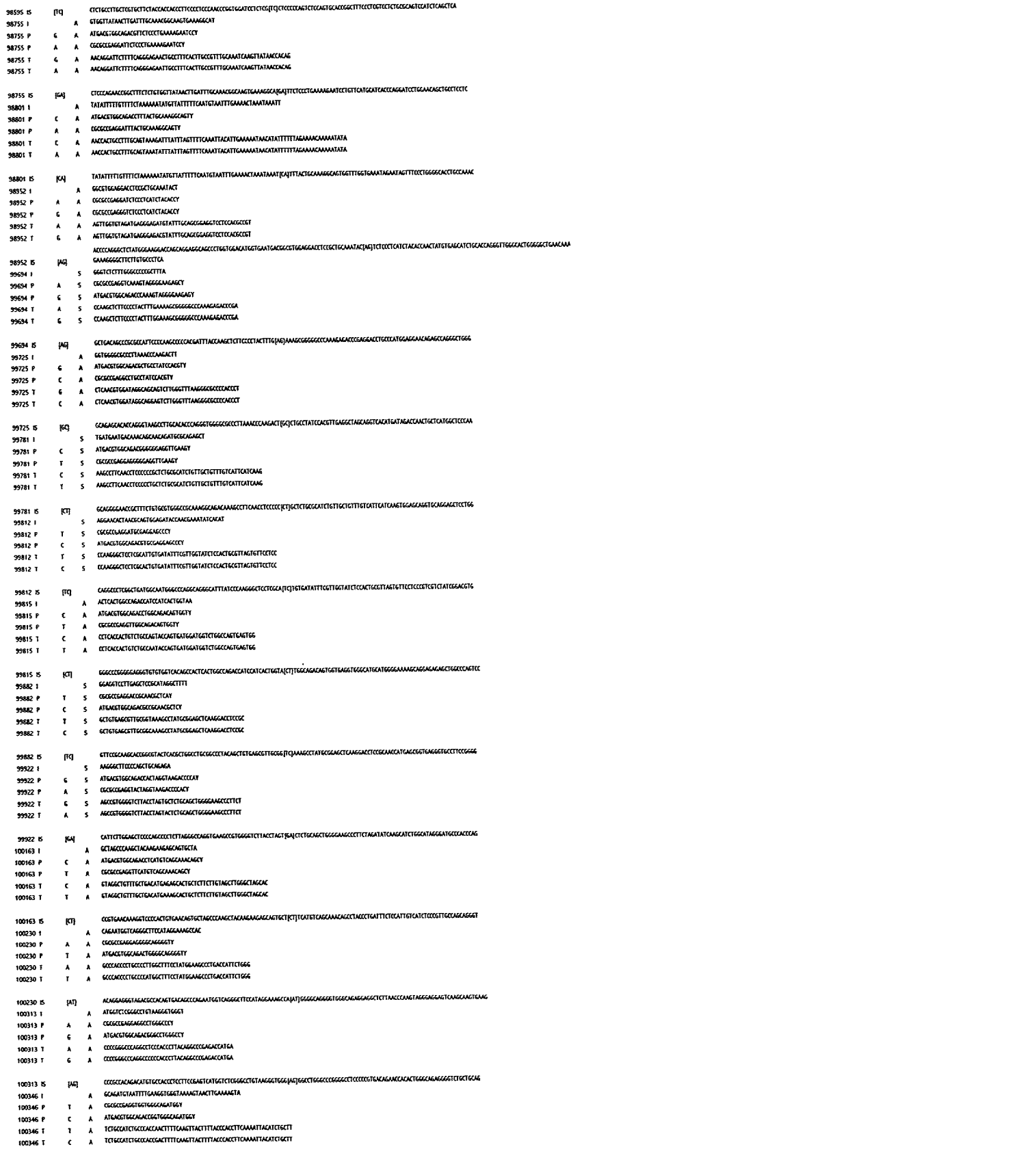
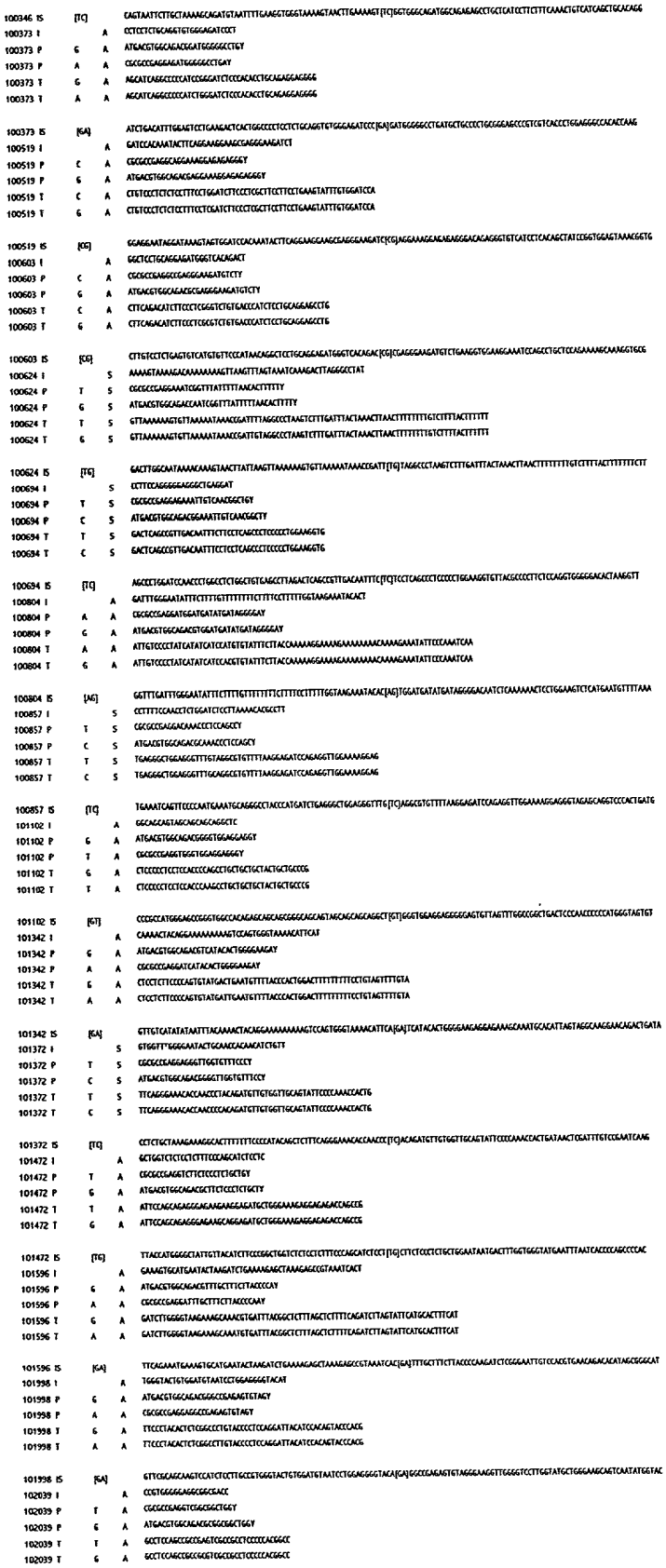
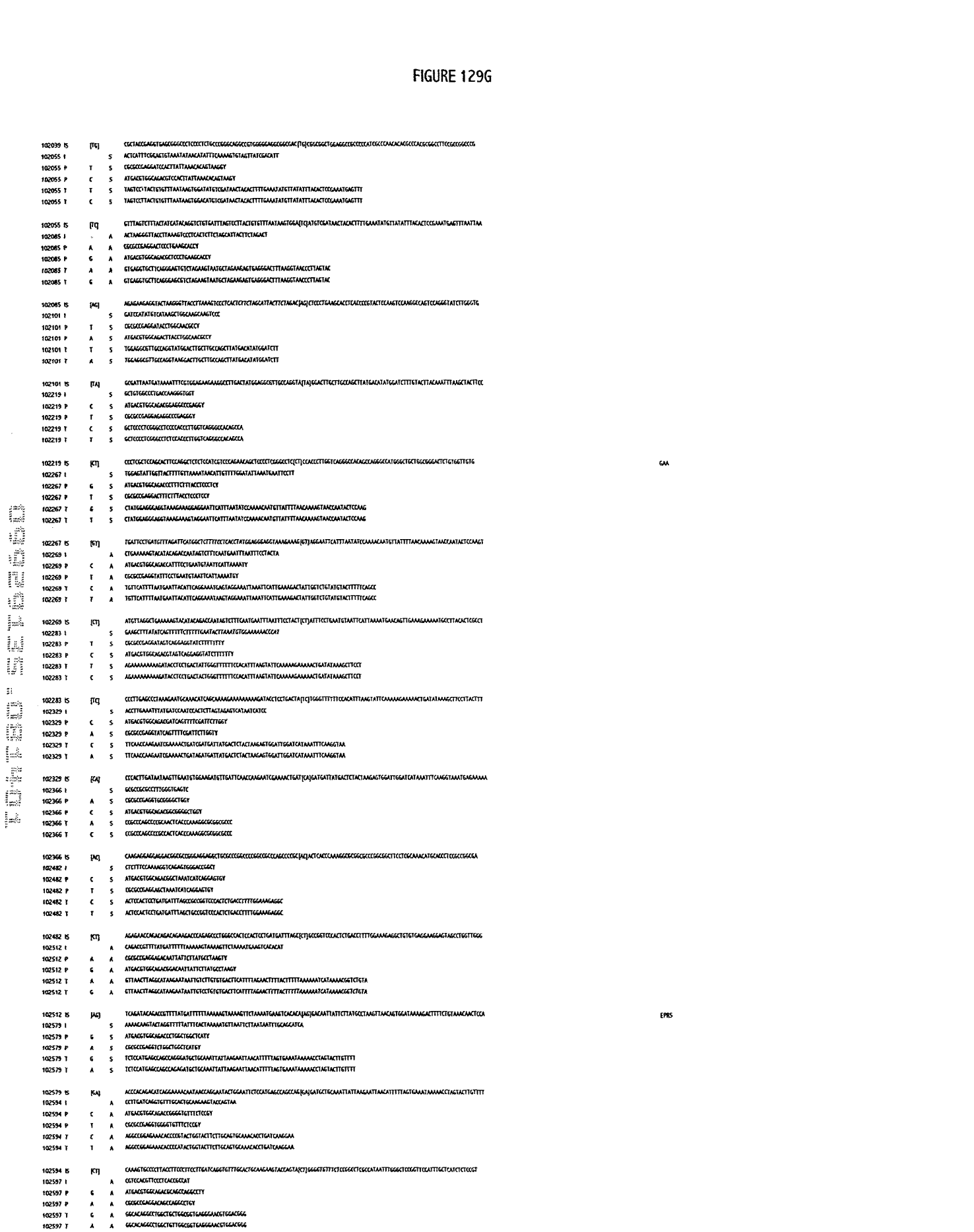


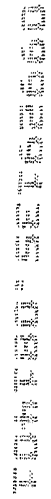
FIGURE 129G



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FIGURE 129G





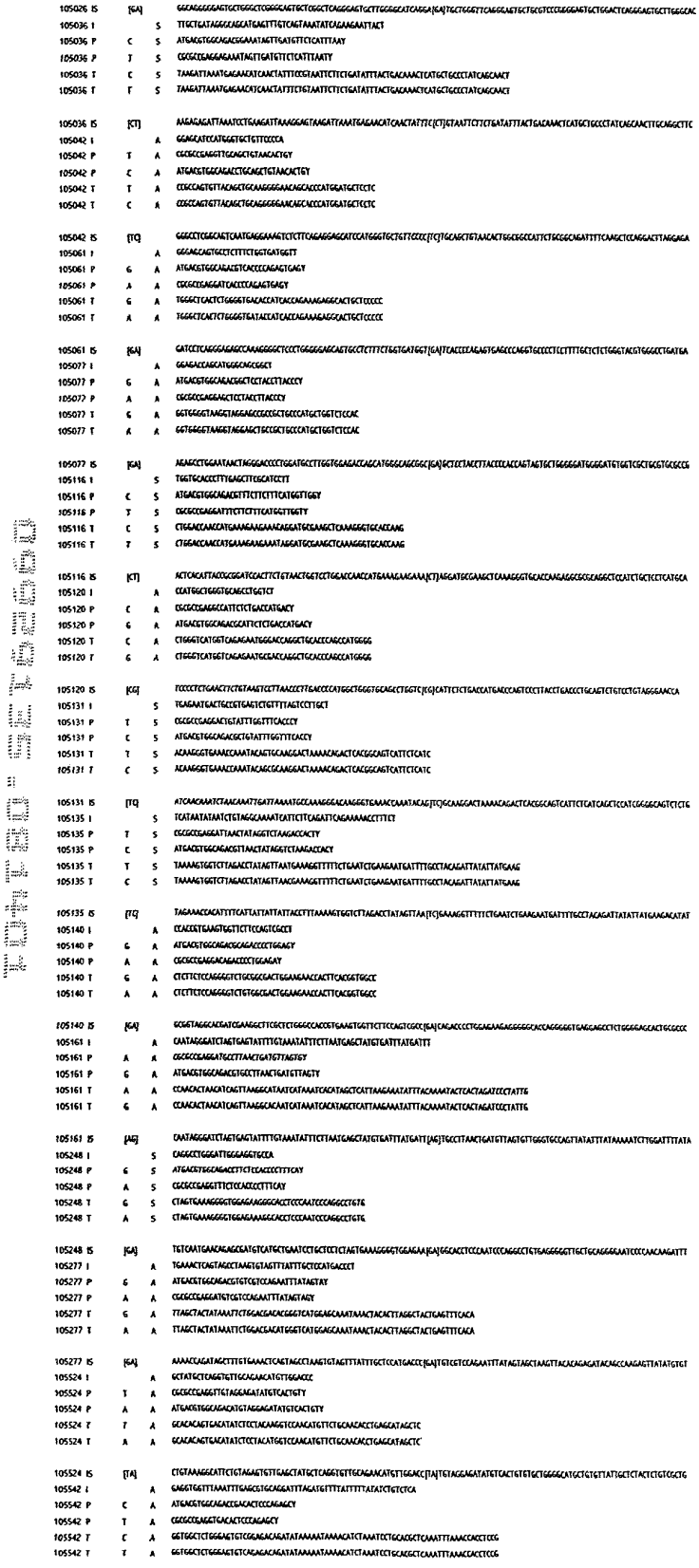
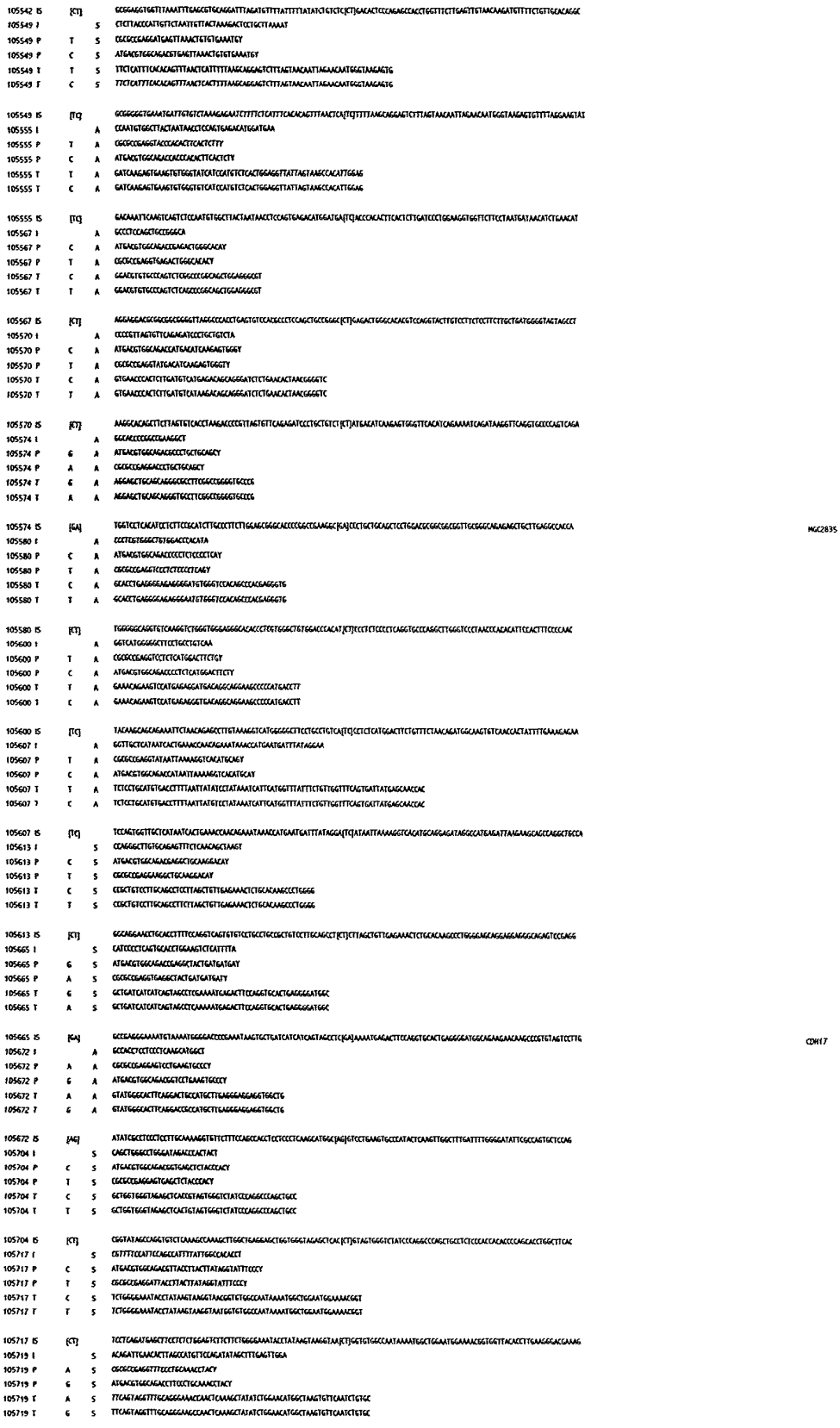
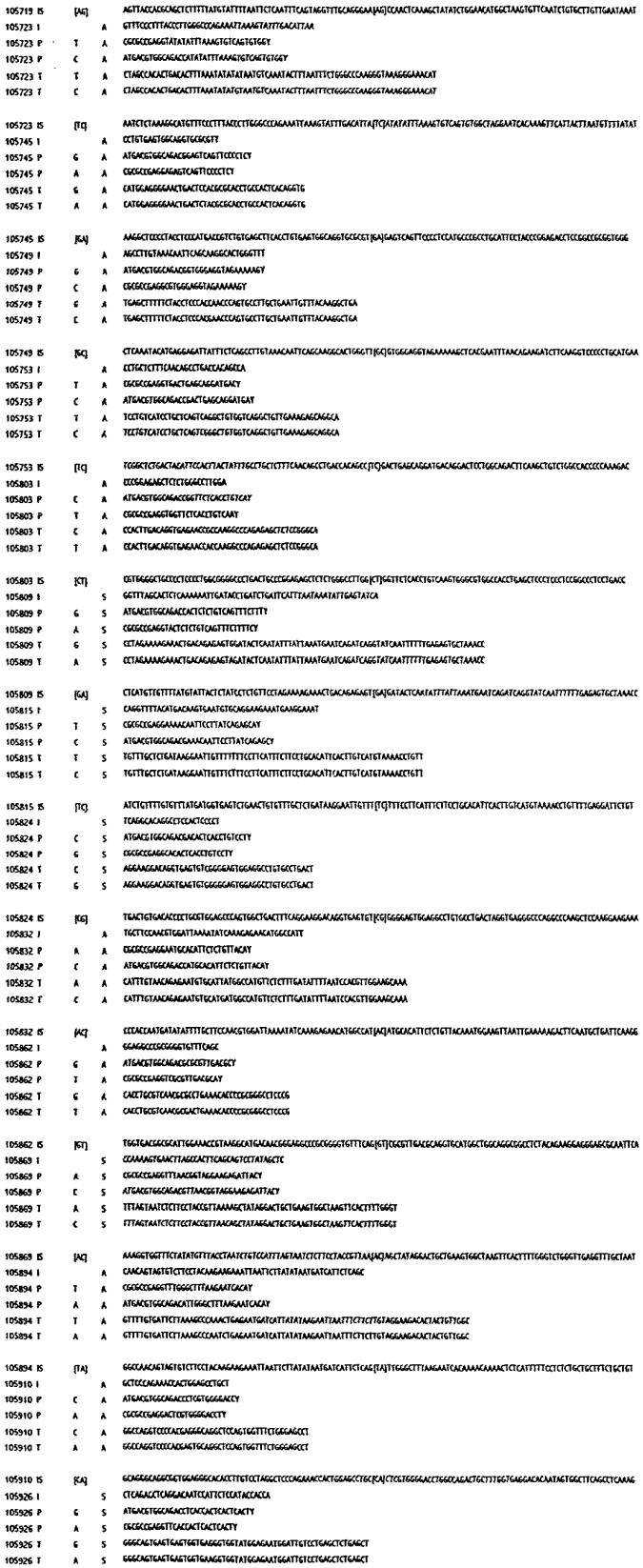


FIGURE 129G


105542 IS [CT] GCGGAGGTGGTTTAAATTTGAGCGTGCAGGATTTAGATGTTTTATTTTTATATC[CT]GACACTCCCAGAGCCACCTGGTTTCTTGAGTTGTAACAAGATGTTTTCTGTTGCACAGGC
105549 I S CTCTTACCCATTGTTCTAATTGTTACTAAAGACTCCTGCTAAAAT
105549 P T S CGCGCCGAGGATGAGTTAAACTGTGTGAAATGY
105549 P C S ATGACGTGGCAGACGTGAGTTAAACTGTGTGAAATGY
105549 T T S TTCTCATTTCACACAGTTTAACTCATTTTTAAGCAGGAGTCTTTAGTAACAATTAGAACAATGGGTAAGAGTG
105549 T C S TTCTCATTTCACACAGTTTAACTCACTTTTAAGCAGGAGTCTTTAGTAACAATTAGAACAATGGCTAAGAGTG
105549 IS [TC] GCGGGGGTGAAATGATTGTGTCTAAAGAGAATCTTTTCTCATTTCACACAGTTTAACTCA[T]TTTTAAGCAGGAGTCTTTAGTAACAATTAGAACAATGGGTAAGAGTGTTTTAGGAAGTAT
105555 I A CCAATGTGGCTTACTAATAACCTCCAGTGAGACATGGATGAA
105555 P T A CGCGCCGAGGTACCCACACTTCACTCTTY
105555 P C A ATGACGTGGCAGACCACCCACACTTCACTCTY
105555 T T A GATCAAGAGTGAAGTGTGGGTATCATCCATGTCTCACTGGAGGTTATTAGTAAGCCACATTGGAG
105555 T C A GATCAAGAGTGAAGTGTGGGTGTCATCCATGTCTCACTGGAGGTTATTAGTAAGCCACATTGGAG
105555 IS [TC] GACAAATTCAAGTCAGTCTCCAATGTGGCTTACTAATAACCTCCAGTGAGACATGGATGAA[T]ACCCACACTTCACTCTTGATCCCTGGAAGGTGGTTCTTCCTAATGATAACATCTGAACAT
105567 I A GCCCTCCAGCTGCCGGGCA
105567 P C A ATGACGTGGCAGACCGAGACTGGGCACAY
105567 P T A CGCGCCGAGGTGAGACTGGGCACACT
105567 T C A GGACGTGTGCCCAGTCTCAGCCCGGCAGCTGGAGGGGGT
105567 T T A GGACGTGTGCCCAGTCTCAGCCCGGCAGCTGGAGGGGGT
105567 IS [CT] AGGAGGACGCGGCGGCGGGGTTAGGCCCCACCTGAGTGTCCACGCCCTCCAGCTGCCGGGC[CT]GAGACTGGGCACACGTCCAGGTACTTGTCCTTCTCCTTCTTGCTGATGGGGTAGTAGCCT
105570 I A CCCCGTTAGTGTTCAGAGATCCCTGCTGTCTA
105570 P C A ATGACGTGGCAGACCATGACATCAAGAGTGGGY
105570 P T A CGCGCCGAGGTATGACATCAAGAGTGGGTY
105570 T C A GTGAACCCACTCTTGATGTCATGAGACAGCAGGAGATCTCTGAACACTAACGGGGTC
105570 T T A GTGAACCCACTCTTGATGTCATAAGACAGCAGGAGATCTCTGAACACTAACGGGGTC
105570 IS [CT] AAGGCACAGCTTCTTAGTGTCACCTAAGACCCCGTTAGTGTTCAGAGATCCCTGCTGTCT[CT]ATGACATCAAGAGTGGGTTCACATCAGAAAATCAGATAAGGTTCAGGTGCCCCAGTCAGA
105574 I A GGCACCCCGGCCGAAGGCT
105574 P G A ATGACGTGGCAGACGCCCTGCTGCAGCY
105574 P A A CGCGCCGAGGACCCTGCTGCAGCY
105574 T G A AGGAGCTGCAGCAGGGGCCTTGGCCGGGGGTGCCCG
105574 T A A AGGAGCTGCAGCAGGGTGCCTTCGGCCGGGGTGCCCG
105574 IS [GA] TGGTCCTCACATCCTCTTCCGCATCTTGCCCTTCTTGGAGCGGGCACCCCGGCCGAAGGC[GA]CCCTGCTGCAGCTCCTGGACGCGGCGGCGGTTGCGGGCAGAGAGCTGCTTGAGGCCACCA MGC2835
105580 I A CCCTTGTGGGCTGTGGACCTACATA
105580 P C A ATGACGTGGCAGACCCCCTCCCCCTCAY
105580 P T A CGCGCCGAGGTCCCCTCCCCTCAGY
105580 T C A GCACCTGAGGGGAGAGGGGATGTGTGGGTCCACAGCCCACGAGGGTG
105580 T T A GCACCTGAGGGGAGAGGGAATGTGGGTCCACAGCCCACGAGGGTG
105580 IS [CT] TGGGGGCAGGTGTCAAGGTCTGGGTGGGAGGGCACACCCTCGTGGGCTGTGGACCCACAT[CT]CCCTCTCCCCTCAGGTGCCCAGCCTGGGTCCCTAACCCACACATTCCACTTTCCCCAAC
105600 I A GGTCATGGGGGCTTCCTGCCTGTCAA
105600 P T A CGCGCCGAGGTCCTCTCATGGACTTCTGY
105600 P C A ATGACGTGGCAGACCCCTCTCATGGACTTCTY
105600 T T A GAAACAGAAGTCCATGAGAGGATGACAGGCAGGAAGCCCCCATGACCTT
105600 T C A GAAACAGAAGTCCATGAGAGGGTGACAGGCAGGAAGCCCCCATGACCTT
105600 IS [TC] TACAAGCAGCAGAAATTCTAACAGAGCCTTGTAAAGGTCATGGGGGCTTCCTGCCTGTCA[TC]CCTCTCATGGACTTCTGTTTCTAACAGATGGCAAGTGTCAACCACTATTTTGAAAGAGAA
105607 I A GGTTGCTCATAATCACTGAAACCAACAGAAATAAACCATGAATGATTTATAGGAA
105607 P T A CGGCCGAGGTATAATTAAAAGGTCACATGCAGY
105607 P C A ATGACGTGGCAGACCATAATTAAAAGGTCACATGCAY
105607 T T A TCTCCTGCATGTGACCTTTAATTATATCCTATAAATCATTCATGGTTTATTTCTGTTGGTTTCAGTGATTATGAGCAACCAC
105607 T C A TCTCCTGCATGTGACCTTTAATTATGTCCTATAAATCATTCATGGTTTATTTCTGTTGGTTTCAGTGATTATGAGCAACCAC
105607 IS [TC] TCCAGTGGTTGCTCATAATCACTGAAACCAACAGAAATAAACCATGAATGATTTATAGGA[T]CTATAATTAAAAGGTCACATGCAGGAGATAGGCCATGAGATTAAGAAGCAGCCAGGCTGCCA
105613 I S CCAGGGCTTGTGCAGAGTTTCTCAACAGCTAAGT
105613 P C S ATGACGTGGCAGAGAGGCTGCAAGGACAY
105613 P T S CGCGCCGAGGAAGGCTGCAAGGACAY
105613 T C S CCGCTGTCCTTGCAGCCTCCTTAGCTGTTGAGAAACTCTGCACAAGCCCTGGGG
105613 T T S CCGCTGTCCTTGCAGCCTTCTTAGCTGTTGAGAAACTCTGCACAAGCCCTGGGG
105613 IS [CT] GGCAGGAAGCTGCACCTTTTCCAGGTCAGTGTGTCCTGCCGCTGTCCTTGCAGCCT[CT]CTTAGCTGTTGAGAAACTCTGCACAAGCCCTGGGGAGCAGGAGGAGGGCAGAGTCCCAGG
105665 I S CATCCCCTCAGTGCACCTGGAAGTCTCATTTTA
105665 P G S ATGACGTGGCAGACCGAGGCTACTGATGATGAY
105665 P A S CGCGCCGAGGTGAGGCTACTGATGATGATY
105665 T G S GCTGATCATCATCAGTAGCCTCGAAAATGAGACTTCCAGGTGCACTGAGGGGATGGC
105665 T A S GCTGATCATCATCAGTAGCCTCAAAATGAGACTTCCAGGTGCACTGAGGGGATGGC
105665 IS [GA] GCCCAGGGAAAATGTAAAATGGGGACCCCGAAATAAGTGCTGATCATCATCAGTAGCCTC[GA]AAAATGAGACTTCCAGGTGCACTGAGGGGATGGCAGAAGAACAAGCCCCGTGTAGTCCTTG CDH17
105672 I A GCCACCTCCTCCCTCAAGCATGGCT
105672 P A A CGCGCCGAGGAGTCCTGAAGTGCCCY
105672 P G A ATGACGTGGCAGACGGTCCTGAAGTGCCCY
105672 T A A GTATGGGCACTTCAGGACTGCCATGCTTGAGGAAGGAGGTGGCTG
105672 T G A GTATGGGCACTTCAGGACCGCCATGCTTGAGGAAGGAGGTGGCTG
105672 IS [AG] ATATCGCCTCCCTCCTTGCAAAAGGTGTTCTTTCCAGCCACCTCCTCCCTCAAGCATGGC[AG]GTCCTGAAGTGCCCATACTCAAGTTGGCTTTGATTTTGGGGATATTCGGCCAGTGCTCCAG
105704 I S CAGCTGGGCCTGGGATAGACCCACTACT
105704 P C S ATGACGTGGCAGACGGTGAGCTCTACCCACY
105704 P T S CGCGCCGAGGAGTGAGCTCTACCCACY
105704 T C S GCTGGTGGGTAGAGCTCACCGTAGTGGGTCTATCCCAGGCCCAGCTGCC
105704 T T S GCTGGTGGGTAGAGCTCACTGTAGTGGGTCTATCCCAGGCCCAGCTGCC
105704 IS [CT] CGGTATAGCCAGGTGTCTCAAAGCCAAAGCTTGGCTGAGGAGCTGGTGGGTAGAGCTCAC[CT]GTAGTGGGTCTATCCCAGGCCCAGCTGCCTCTCCCCACCACACCCCAGCACCTGGCTTCAC
105717 I S CGTTTTCCATTCCAGGCATTTTATTGGCCACACACCT
105717 P C S ATGACGTGGCAGACGTTACCTTACTTATAGGTATTTCCCY
105717 P T S CGCGCCGAGGATTACCTTACTTATAGGTATTTCCCY
105717 T C S TCTGGGGAAATACCTATAAGTAAGGTAACGGTGTGGCCAATAAAATGGCTGGAATGGAAAACGGT
105717 T T S TCTGGGGAAATACCTATAAGTAAGGTAATGGTGTGGCCAATAAAATGGCTGGAATGGAAAACGGT
105717 IS [CT] TCCTCAGATGAGCTTCCTCTCTGGAGTCTCTTCTGGGGAAATACCTATAAGTAAGGTAA[CT]GGTGTGGCCAATAAAATGGCTGGAATGGAAAACGGTGGTTACACCTTGAAGGCACGAAAG
105719 I S ACAGATTGAACACTTAGCCATGTTCCAGATATAGCTTTGAGTTGGA
105719 P A S CGCGCCGAGGTTTCCCTGCAAACCTACY
105719 P G S ATGACGTGGCAGACCTTCCCTGCAAACCTACY
105719 T A S TTCAGTAGGTTTGCAGGGAAACCAACTCAAAGCTATATCTGGAACATGGCTAAGTGTTCAATCTGTGC
105719 T G S TTCAGTAGGTTTGCAGGGAAGCCAACTCAAAGCTATATCTGGAACATGGCTAAGTGTTCAATCTGTGC


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106099 IS      [GA]      GATTTTATAATTCAGATACCAAGTCATAAATCATAACTCGAGTATCTGCATTCTTATTCT[GA]TGGTACATAAGTAGTACTCTTTTTAGTTGATAAATACAACCAAACTCAATCCCACAAACT
106119 I             S   CCCGCTGGGGCTCTGCTCCTCCA
106119 P       G     S   ATGACGTGGCAGACCGGCTACTAATCCTGCTY
106119 P       A     S   CGCGCCGAGGTGGCTACTAATCCTGCTAAY
106119 T       G     S   AAGATTAGCAGGATTAGTAGCCGGGAGGAGCAGAGCCCAGCGGGAC
106119 T       A     S   AAGATTAGCAGGATTAGTAGCCAGGAGGAGCAGAGCCCAGCGGGAC

106119 IS      [GA]      AGCTGTCCACCACCCCCATCTCCACAGACAGAGCAGCAAGATTAGCAGGATTAGTAGCC[GA]GGAGGAGCAGAGCCCAGCGGGACAGGGAACAGGAACGCAGCCTCAGCAGGGGAAGTGCCC
106131 I             A   TGCATCCAGGCCCTTATAAAACTTTGTAATTGGTTATGCATAAGCT
106131 P       G     A   ATGACGTGGCAGACGCAACTTATGGCTTTTTCATY
106131 P       A     A   CGCGCCGAGGACAACTTATGGCTTTTTCATGY
106131 T       G     A   AACACAATGAAAAAGCCATAAGTTGCGCTTATGCATAACCAATTACAAAGTTTTATAAGGGCCTGGATGCACA
106131 T       A     A   AACACAATGAAAAAGCCATAAGTTGTGCTTATGCATAACCAATTACAAAGTTTTATAAGGGCCTGGATGCACA

106131 IS      [GA]      TACTATCATGCTTTGTGCATCCAGGCCCTTATAAAACTTTGTAATTGGTTATGCATAAGC[GA]CAACTTATGGCTTTTTCATTGTGTTTCCAGCACAGTGATGCGGTCCATGACCTCCTTCTG
106132 I             S   GGATGGTGTTACAGTCACTCTGGAGCCCT
106132 P       C     S   ATGACGTGGCAGACGCGGAAAAAGCAAAATGTY
106132 P       G     S   CGCGCCGAGGCCGGAAAAAGCAAAATGTY
106132 T       C     S   CTTCACATTTTGCTTTTTCCGCGGGCTCCAGAGTGACCGTAACACCATCCAC
106132 T       G     S   CTTCACATTTTGCTTTTTCCGCGGGCTCCAGAGTGACCGTAACACCATCCAC

106132 IS      [CG]      TGGAATTTTGCTGTCCCTTGTTTGTCTCCTGATTTGCATCTTCACATTTTGCTTTTTCCG[CG]GGGCTCCAGAGTGACCGTAACACCATCCACAAGAACCTCTGCATCAGTCTCTTTGTAGCA   X04407.68
106137 I             S   GAGACTGGGGGTGGCAGGGGTAAA
106137 P       G     S   ATGACGTGGCAGACCATTTACTCAAGGTTAAGAAACTGY
106137 P       A     S   CGCGCCGAGGTATTTACTCAAGGTTAAGAAACTGY
106137 T       G     S   CTTCCAGTTTCTTAACCTGAGTAAATGTTACCCCTGCCACCCCCCAGGTCTCAC
106137 T       A     S   CTTCCAGTTTCTTAACCTGAGTAAATATTACCCCTGCCACCCCCAGGTCTCAC

106137 IS      [GA]      AAAATCGAAACCCTCGTGAAGTGCAGTTCAGTACTTCCAGTTTCTTAAACTTGAGTAAATG[GA]TTACCCCTGCCACCCCCAGGTCTCACCCCCTAAGTCGGCCAGAGGAGGGTTCCAGGAGGC
106144 I             S   GGAAGTTTTCCCCTAATTTCTAATCTCTTTTCATAGCTCAGATTTTTTTCA
106144 P       G     S   ATGACGTGGCAGACCGCTTTTCTCCAAAATACCY
106144 P       A     S   CGCGCCGAGGTGCTTTTCTCCAAAATACCTY
106144 T       G     S   GGAAAGGTATTTTGGAGAAAAGCGGAAAAAAATCTGAGCTATGAAAAGAGATTAGAAATTAGGGGAAAACTTCCTT
106144 T       A     S   GGAAAGGTATTTTGGAGAAAAGCAGAAAAAAATCTGAGCTATGAAAAGAGATTAGAAATTAGGGGAAAACTTCCTT

106144 IS      [GA]      TGGCCAGCGGCATGCTAGAGCAAGATGGGGCTGGTCTAAAGGAAAGGTATTTTGGAGAAAAGC[GA]GAAAAAAATCTGAGCTATGAAAAGAGATTAGAAATTAGGGGAAAACTTCCTTCTTAGGAG
106150 I             S   GCCCCACCCCCGGGGTACCA
106150 P       G     S   ATGACGTGGCAGACCACCCCGCCTGTACY
106150 P       A     S   CGCGCCGAGGTACCCCGCCTGTACY
106150 T       G     S   CTCTGTACAGGCGGGGTGGGTACCCCGGGGGTGGGCCG
106150 T       A     S   CTCTGTACAGGCGGGGTAGGTACCCCGGGGGTGGGCCG

106150 IS      [GA]      AGCCCCTGAGGAGGAATCCCAGTGAGGAAGAAAACTGGCACCTCTCTGTACAGGCGGGGT[GA]GGTACCCCGGGGGTGGGGCCGGTCAGAAAGGCCCTGCCTGCCCAACGTCCAGGAAGTGGG
106172 I             A   CCGGTGGAGGTGACCCAGTTTGTAATGAACTTCTGGT
106172 P       A     A   CGCGCCGAGGATCTCCAGTCAGATACTATGGY
106172 P       C     A   ATGACGTGGCAGACCTCTCCAGTCAGATACTATGGY
106172 T       A     A   TCCTCCATAGTATCTGACTGGAGATCCAGAAGTTCATTACAAACTGGTCACCTCCACCGGAA
106172 T       C     A   TCCTCCATAGTATCTGACTGGAGAGCCAGAAGTTCATTACAAACTGGTCACCTCCACCGGAA

106172 IS      [AC]      AGCTGTAGCTGTCTTTGCTTCCCTTCCGGTGGAGGTGACCAGTTTGTAATGAACTTCTGG[AC]TCTCCAGTCAGATACTATGGAGGAGACAGAGTGATGGAGGGCTGAGGAGAGGCCTCAGGTTG
106221 I             S   GCCATCTCAGATTTCATGTTGTTTTTTTGAGTTTAATACACACACAGCAT
106221 P       C     S   ATGACGTGGCAGACGCATTTCTCCTGTTTTACCTY
106221 P       T     S   CGCGCCGAGGCATTTCTCCTGTTTTACCTGY
106221 T       C     S   AACTCAGTAAAACAGGAGAAATGCTGCTGTGTGTGTATTAAACTCAAAAAAACAACATGAAATCTGAGATGGCAT
106221 T       T     S   AACTCAGCTAAAACAGGAGAAATGTTGCTGTGTGTGTATTAAACTCAAAAAAACAACATGAAATCTGAGATGGCAT

106221 IS      [CT]      AAGAATCAAAATAGACTATTCAGCATTGCTGCTCCTAACTCAGGTAAAACAGGAGAAATG[CT]TGCTGTGTGTGTATTAAACTCAAAAAAACAACATGAAATCTGAGATGGCATGAGAGATGA
106224 I             S   CATCTCTCGATGTGGCTGGCATACCACCCA
106224 P       G     S   ATGACGTGGCAGACCGGGACCAAACATCTCY
106224 P       A     S   CGCGCCGAGGTGGCACCAAACATCTCTY
106224 T       G     S   CAGAAGAGATGTTTGGTCCCGGGGTGGTATGCCAGCCACATCGAGAGATGGC
106224 T       A     S   CAGAAGAGATGTTTGGTCCCAGGGTGGTATGCCAGCCACATCGAGAGATGGC

106224 IS      [GA]      CTCAGCAGGGCCCGTGCACCCTCGGAGCTCAGAGCCTTGCAGAAGAGATGTTTGGTCCC[GA]GGGTGGTATGCCAGCCACATCGAGAGATGGCTTGTTTATTTCCCCCATTTCAGGTATGG
106233 I             A   CAAGATGATGGGTTAACAGTGCAACTTAGGGTTTTCAGATTTCTT
106233 P       A     A   CGCGCCGAGGAGAACAGCTGTGCAGAT
106233 P       C     A   ATGACGTGGCAGACCCAAACAGCTGTGCAGY
106233 T       A     A   CGGCTCTGCACAGCTGTTCTAGAAATCTGAAAACCCTAAGTTGCACTGTTAACCCATCATCTTGTT
106233 T       C     A   CGGCTCTGCACAGCTGTTCGAGAAATCTGAAAACCCTAAGTTGCACTGTTAACCCATCATCTTGTT

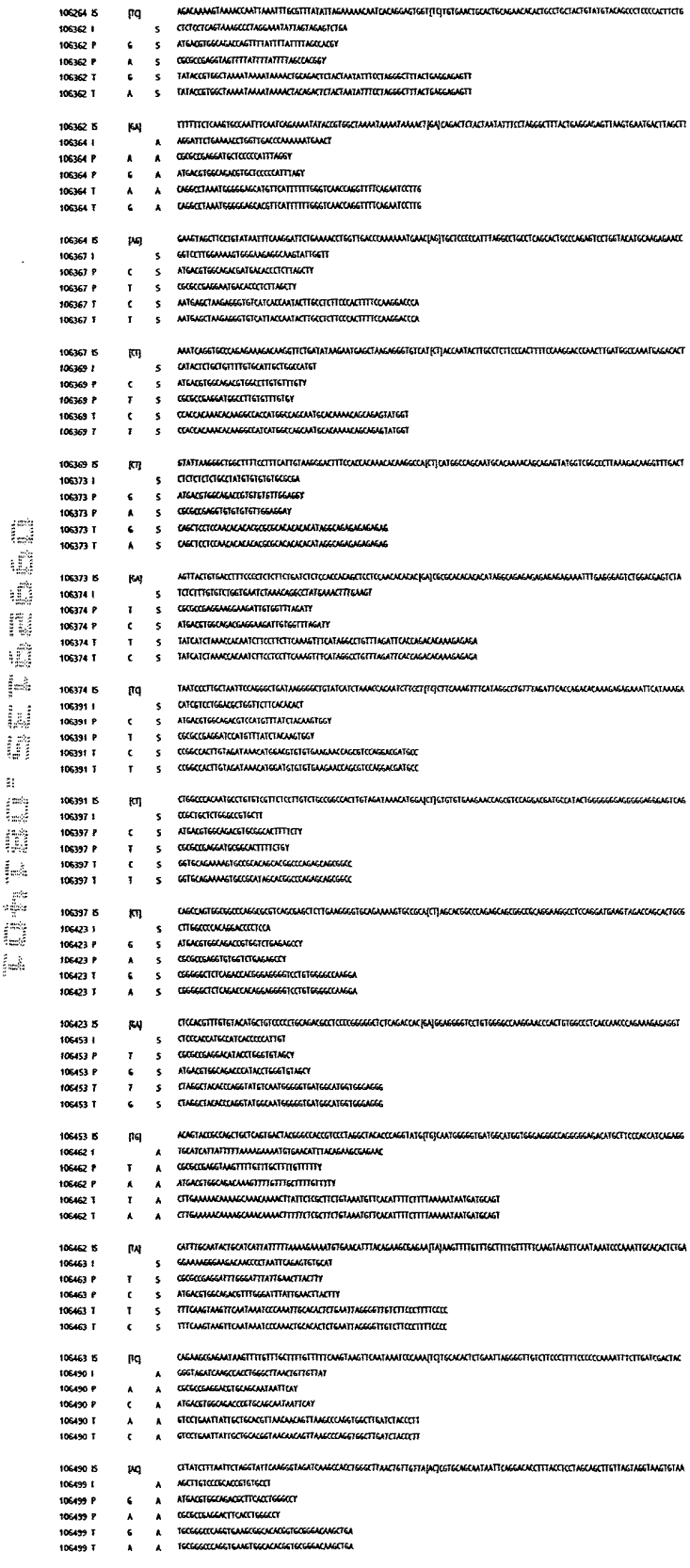
106233 IS      [AC]      TCCTGGGCAGGGCTAACAAGATGATGGGTTAACAGTGCAACTTAGGGTTTTCAGATTTCT[AC]GAACAGCTGTGCAGAGCCGAATCTATATGACATGTCCTGGGAAAGCCTCCTGAGCTGGGA
106242 I             S   GAATGTGTGTGAAGCCCAGAAATGGCATTTGCAT
106242 P       C     S   ATGACGTGGCAGACGTTAATTAGCACATGTGAGGT
106242 P       T     S   CGCGCCGAGGATTAATTAGCACATGTGAGGGY
106242 T       C     S   CTAACCCTCACATGTGCTAATTAACTGCAAATGCCATTTCTGGGCTTCACACACATTCCG
106242 T       T     S   CTAACCCTCACATGTGCTAATTAATTGCAAATGCCATTTCTGGGCTTCACACACATTCCG

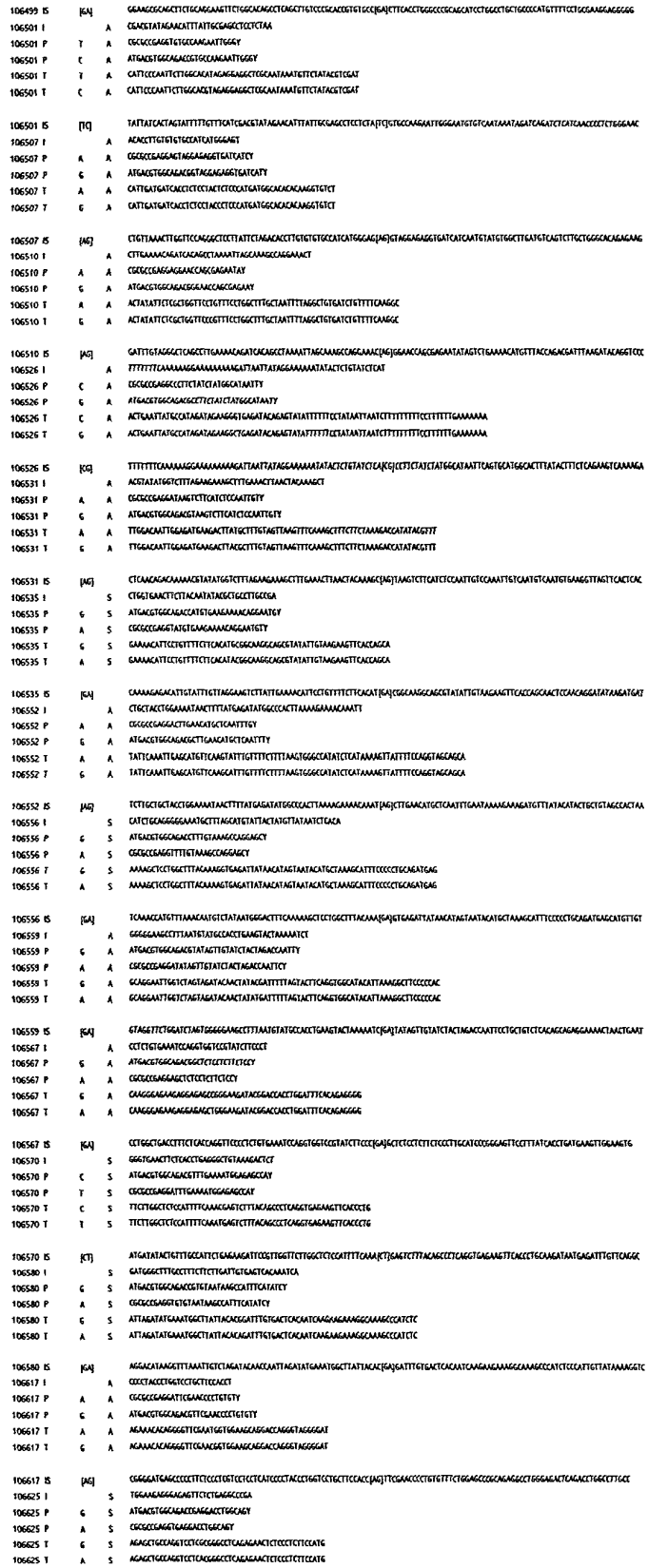
106242 IS      [CT]      TTTTTCCAAACCTTGAGCTTGCATTCACCTACCTGTCTAACCCTCACATGTGCTAATTAA[CT]TGCAAATGCCATTTCTGGGCTTCACACACATTCCGTGGCTTTCCCTTTTCTGATGTGACT   FU20296
106246 I             A   AGGGTAGATGGCCTTTTAGCTATGGGAGTAAATTAATTTAATGACTTCCTA
106246 P       T     A   CGCGCCGAGGTTTAGAGTGTCTGAATTAATTGTY
106246 P       C     A   ATGACGTGGCAGACCTTAGAGTGTCCTGAATTAATTGY
106246 T       T     A   TTGAACAATTAATTCAGGACACTCTAAAAGGAAGTCATTAAATTAATTTACTCCCATAGCTAAAAGGCCATCTACCCTAG
106246 T       C     A   TTGAACAATTAATTCAGGACACTCTAAGAGGAAGTCATTAAATTAATTTACTCCCATAGCTAAAAGGCCATCTACCCTAG

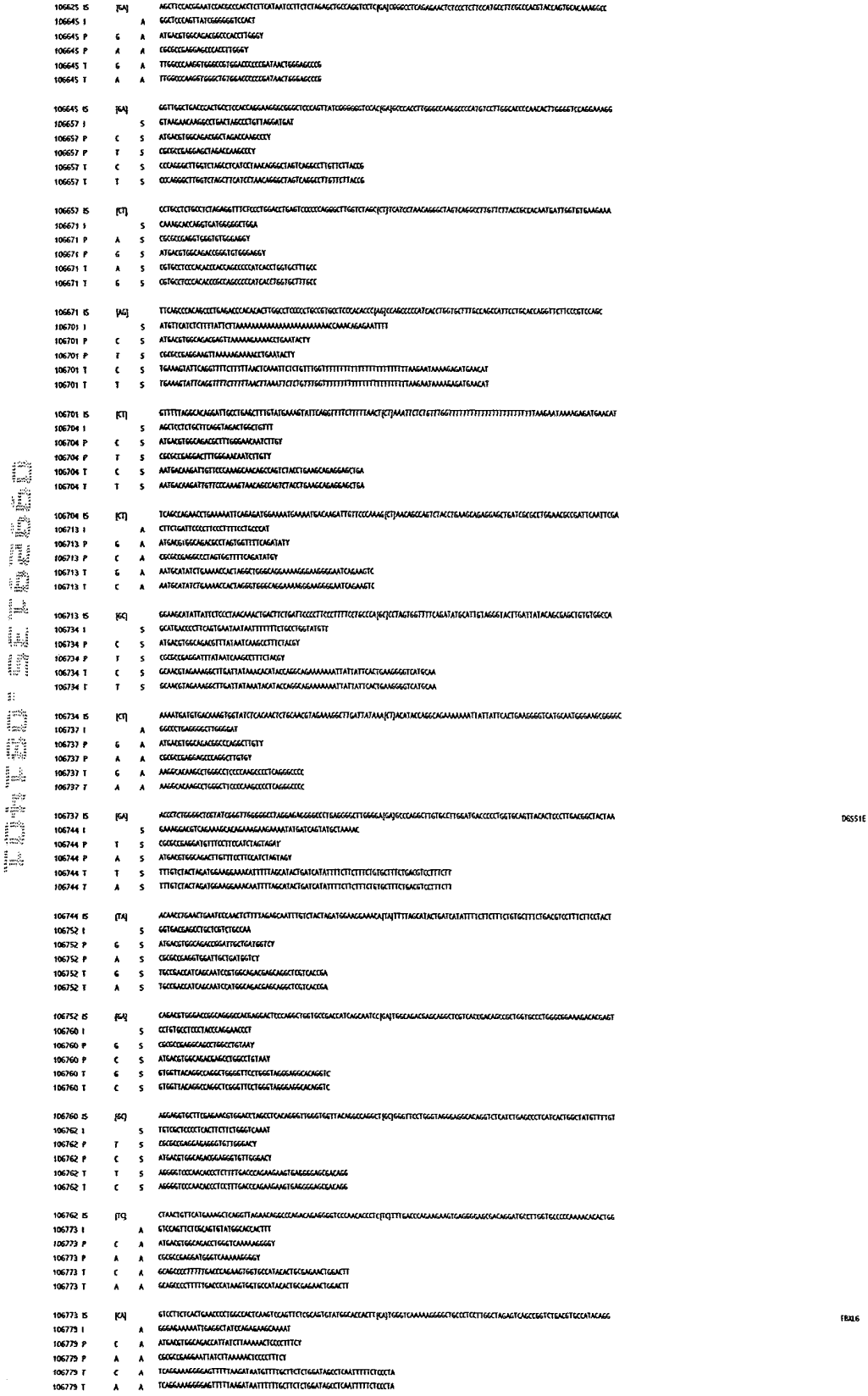
106246 IS      [TC]      CAAGAAACTAGGGTAGATGGCCTTTTAGCTATGGGAGTAAATTAATTTAATGACTTCCT[TC]TTAGAGTGTCCTGAATTAATTGTTCAATAAATGTAGTTAACTGACTAGAATATTTTGTTG
106251 I             A   GCCGGCAGTGGGAGACCCCATGTT
106251 P       A     A   CGCGCCGAGGATGTTTGTGTAGCTCCGY
106251 P       G     A   ATGACGTGGCAGACGTGTTTGTGTAGCTCCGY
106251 T       A     A   GCACCGAGAGCTACACAAACATACATGGGGTCTCCCACTCCCGGCTC
106251 T       G     A   GCACCGAGAGCTACACAAACACACATGGGGTCTCCCACTCCCGGCTC

106251 IS      [AG]      GGCCTAGCATGGTAGAAGGAAGAGCTTGCGGGGCAGGAGCCGGCAGTGGGAGACCCCATGT[AG]TGTTTGTGTAGCTCCGGTGCATAAATATTTTGTTTCATGTCTAACTCCAAAAGCGCCAAG
106264 I             S   AGGCAGTGTGTTCTGCAGTGCAGTTCACAT
106264 P       T     S   CGCGCCGAGGAACACTCCTGTGATTGTY
106264 P       C     S   ATGACGTGGCAGACGACCACTCCTGTGATTGY
106264 T       T     S   AAAAACAATCACAGGAGTGGTTTGTGAACTGCACTGCAGAACACACTGCCTGC
106264 T       C     S   AAAAACAATCACAGGAGTGGTCTGTGAACTGCACTGCAGAACACACTGCCTGC
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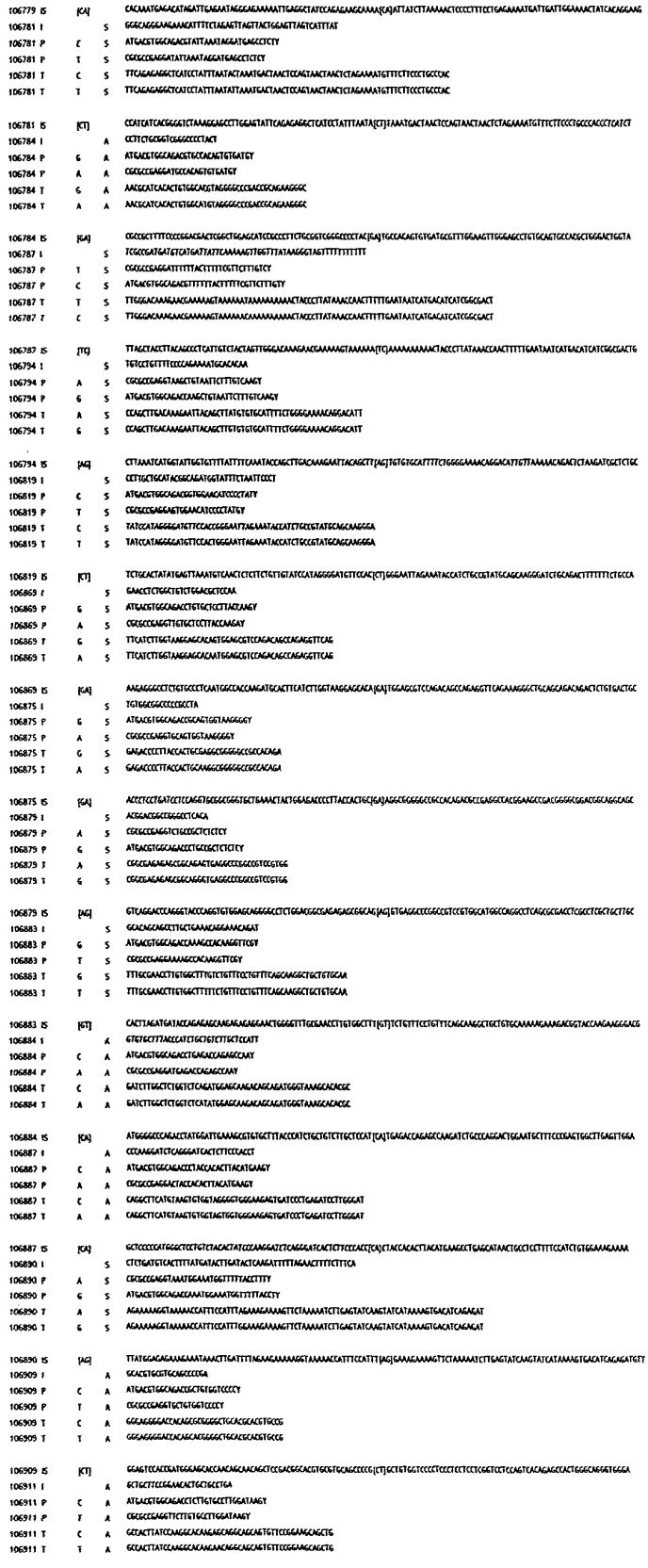
FIGURE 129G







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Application No. 10/552,757 Attorney Docket No. 2004P00249WOUS

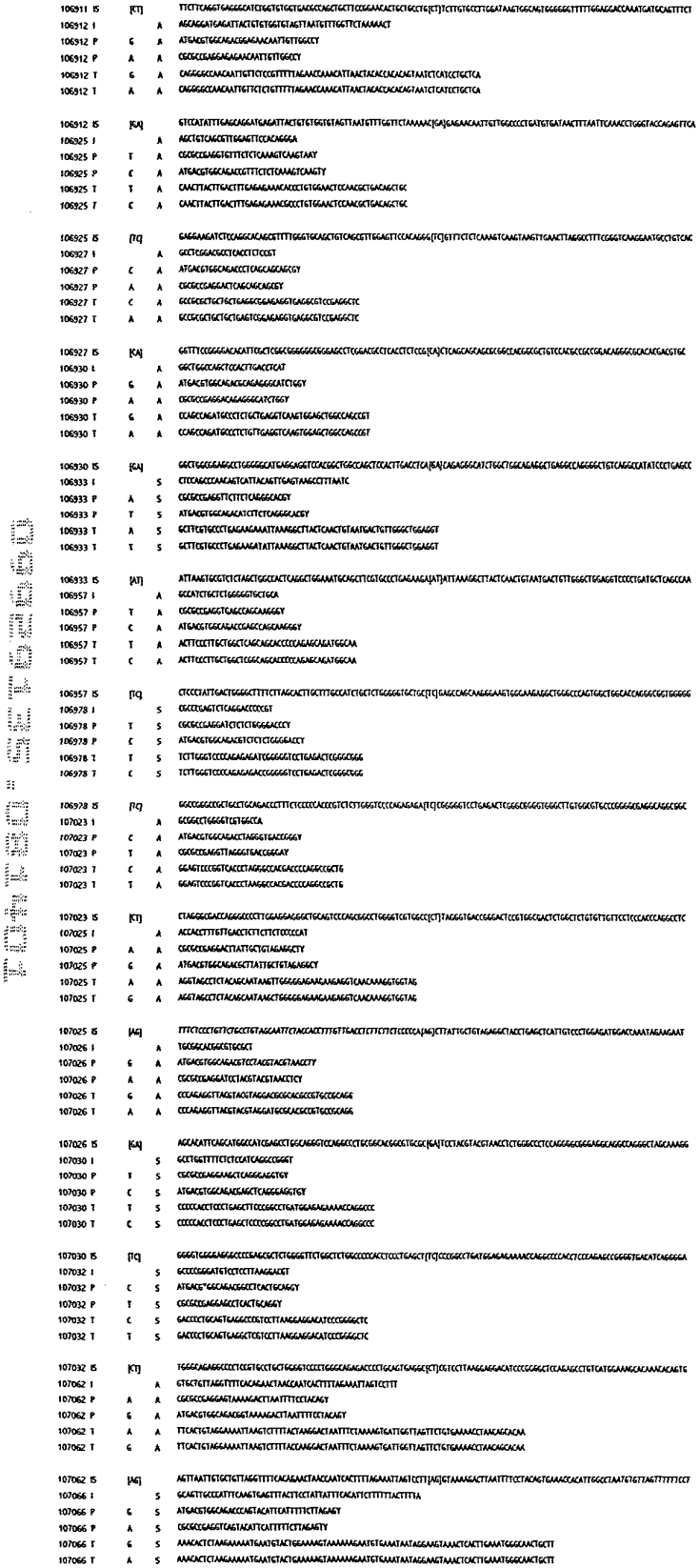


FIGURE 129G

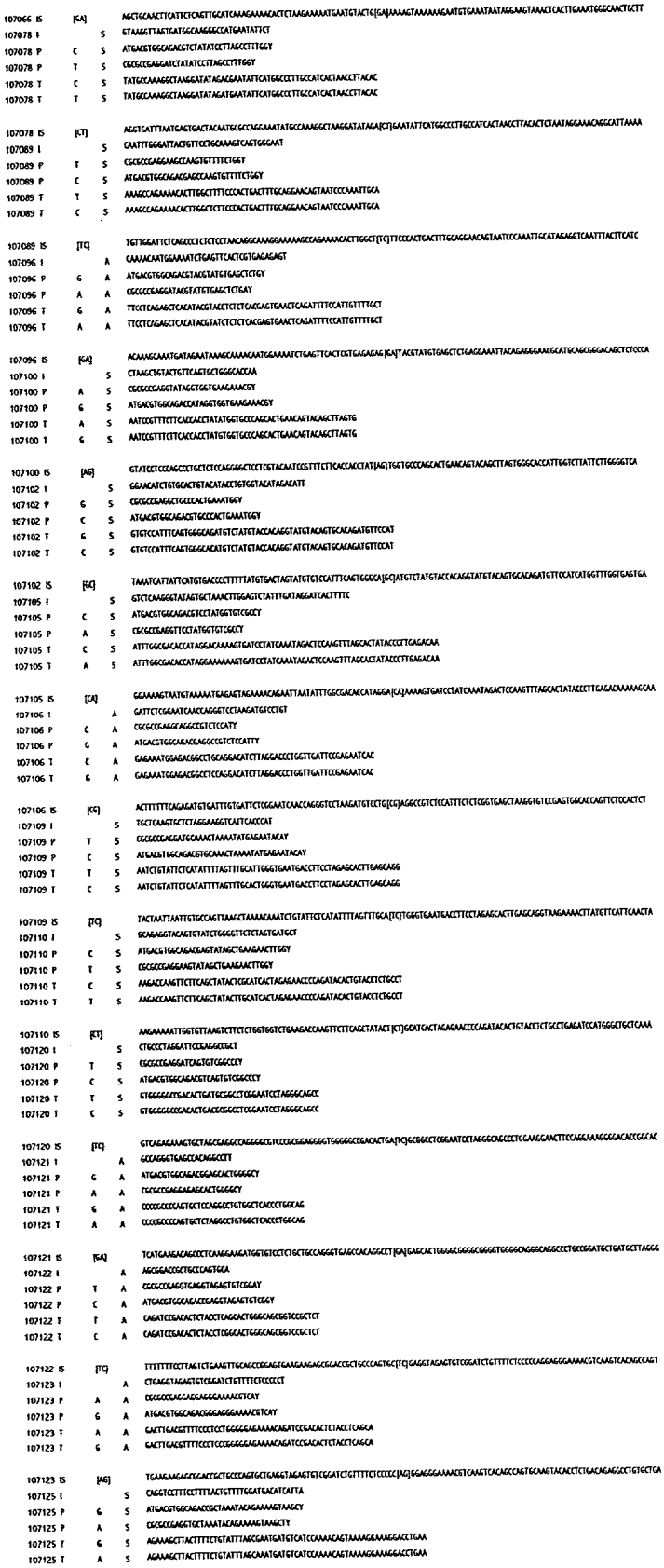
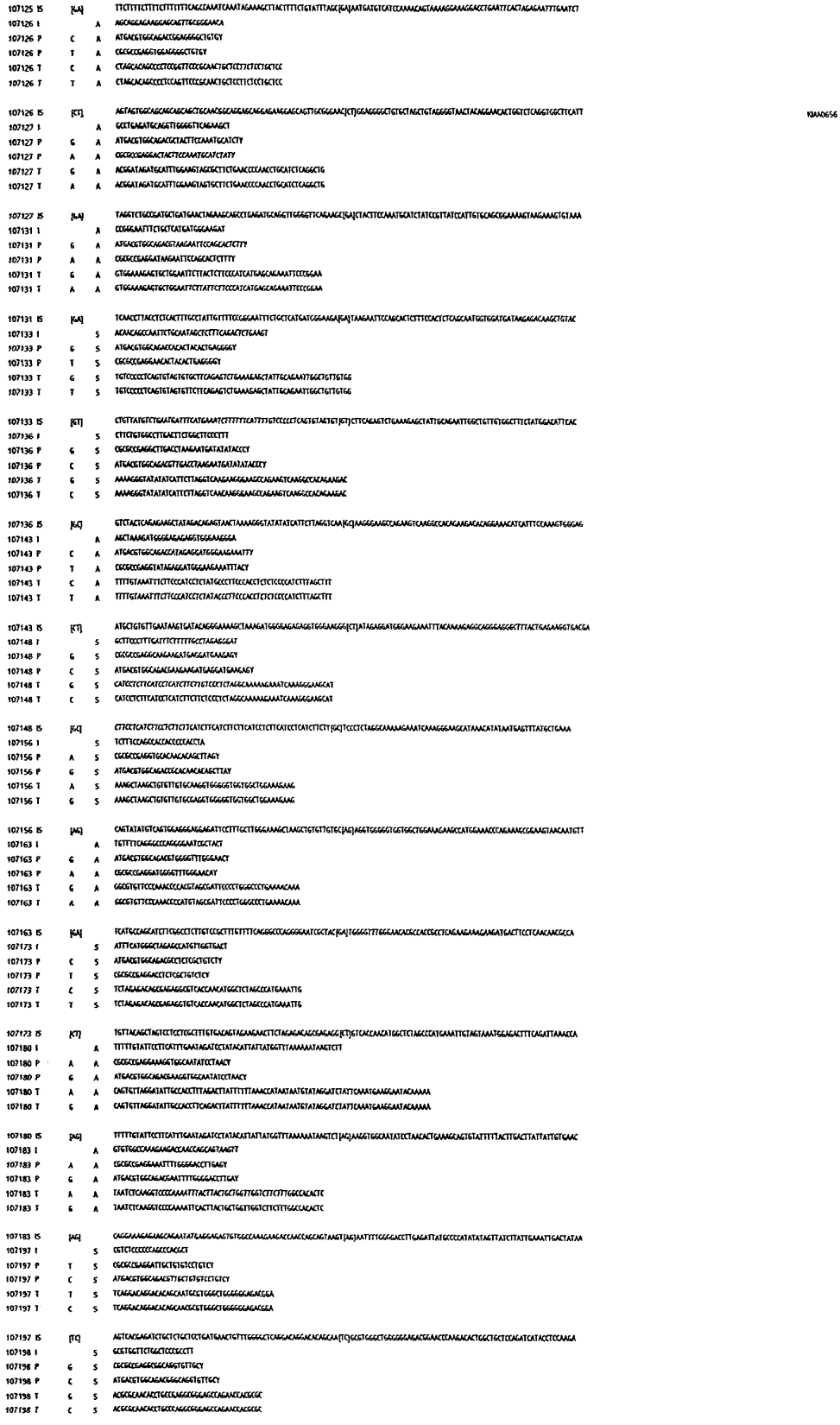
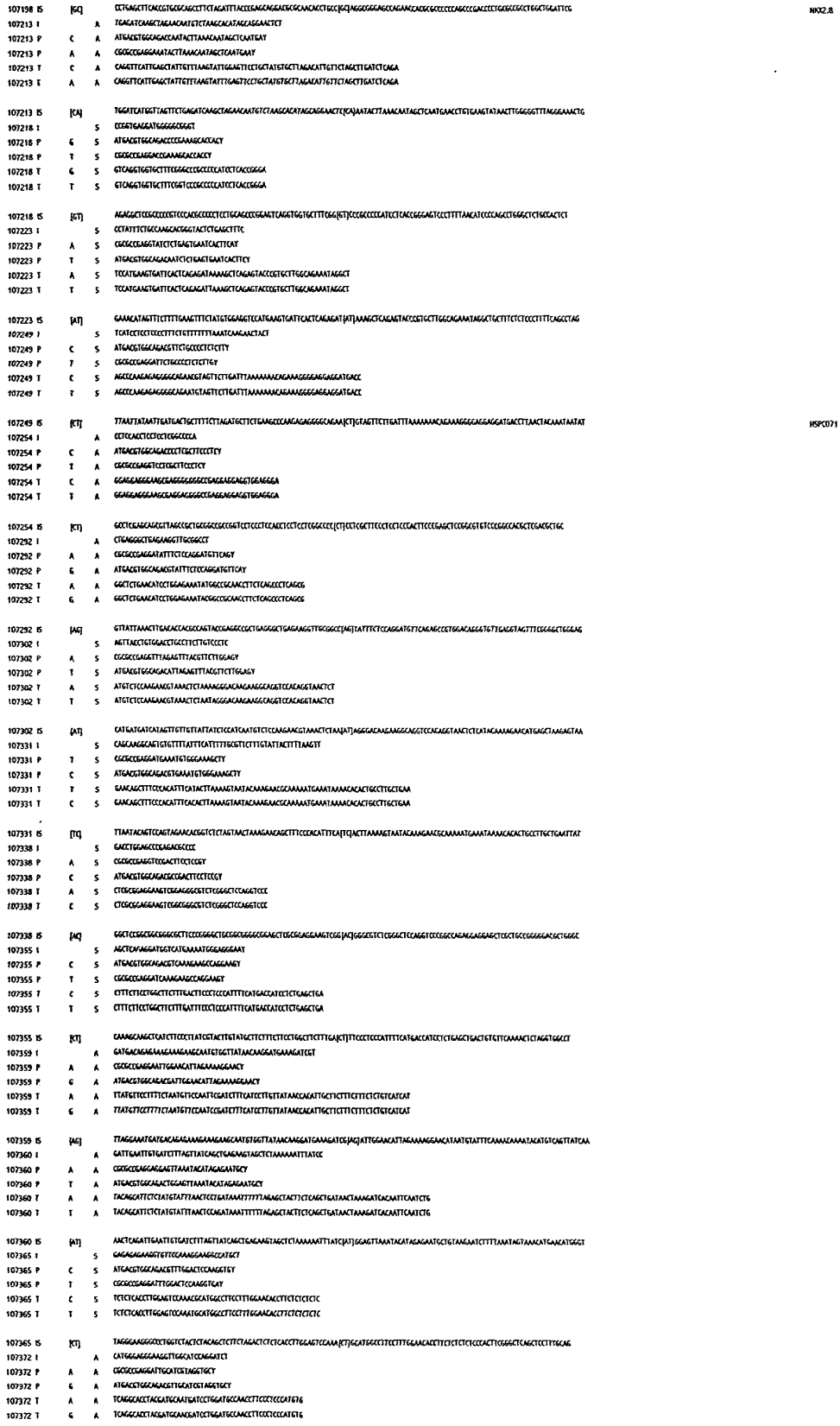
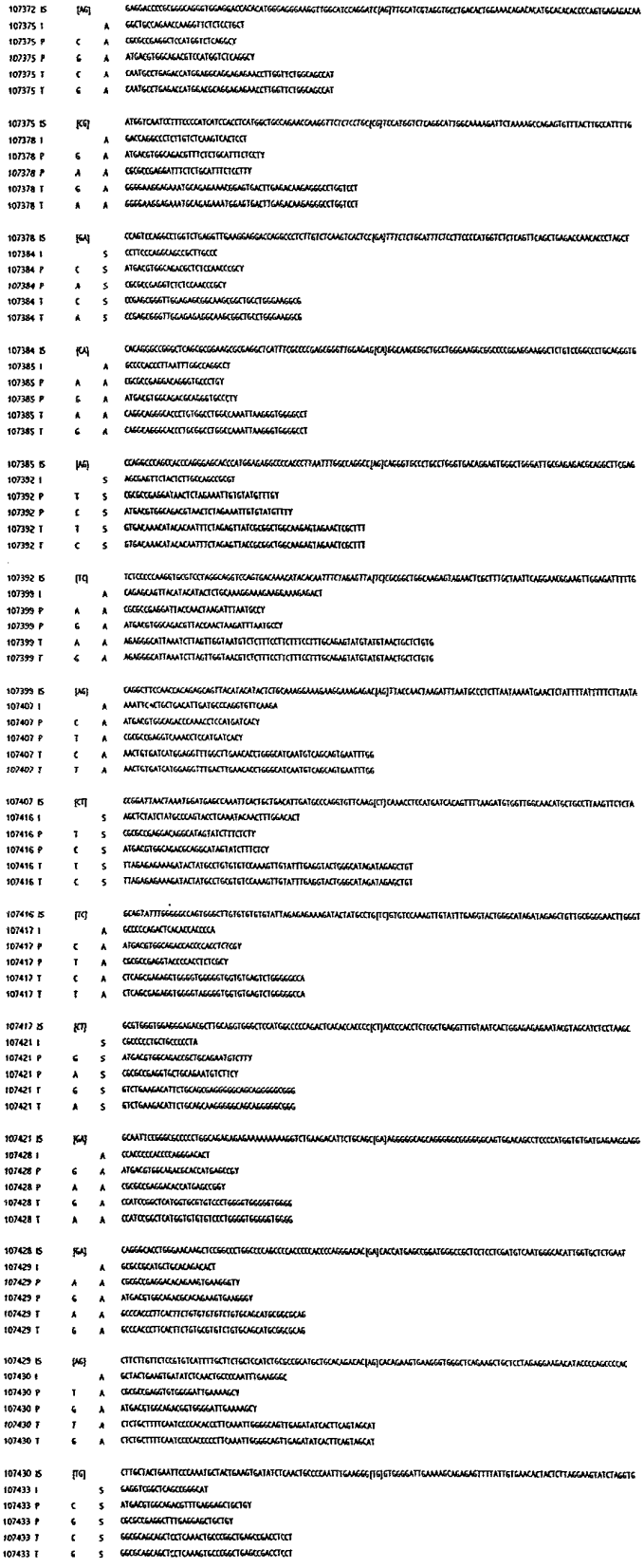


FIGURE 129G







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107433 IS  [CG]      CCTCACTCCTACCGCTCGCCGCCCCGCTTACTTGGCTTTGAGGCGCAGCAGCTCCTCAAA[CG]TGCCCGGCTGAGCCGACCTCCTCCACGGCCGCTACAGCTGCCTCAGCGCCCCCGCCGCC
107445 I           A  CCACTGTCTGTGTGGACCTTCGAGACATTTGCT
107445 P  G        A  ATGACGTGGCAGACGTTTGGGAGCTGTGGY
107445 P  A        A  CGCGCCGAGGATTTGGGAGCTGTGGTY
107445 T  G        A  TCTAACCACAGCTCCCAAACTGCAAATGTCTCGAAGGTCCACACAGACAGTGGGA
107445 T  A        A  TCTAACCACAGCTCCCAAATGCAAATGTCTCGAAGGTCCACACAGACAGTGGGA

107445 IS  [GA]      GTCTTAGGCCTGGCCCCTTTCCACACTCCCACTGTCTGTGTGGACCTTCGAGACATTTGC[GA]TTTGGGAGCTGTGGTTAGAGCACAGCGTGTGATGAAGGCAGGCAAGGACAGGCCATGCAT
107449 I           A  GCTGCCATGTAGTCTCCCTCTTCACTCAGTACAA
107449 P  C        A  ATGACGTGGCAGACCGCCCTATACGCTGGY
107449 P  T        A  CGCGCCGAGGTGCCCTATACGCTGGY
107449 T  C        A  CCAGCCAGCGTATAGGGCGTGTACTGAGTGAAGAGGGAGACTACATGGCAGCCA
107449 T  T        A  CCAGCCAGCGTATAGGGCATGTACTGAGTGAAGAGGGAGACTACATGGCAGCCA

107449 IS  [CT]      CGCTGGACCCCACCCTGGCTCCCCCTGGCTGCCATGTAGTCTCCCTCTTCACTCAGTACA[CT]GCCCTATACGCTGGCTGGAGGCAAGGCCTGGGACGAGCAGGACAGGACAGCCTTATGCAGA  MGC13047
107463 I           A  GGCCAGCCCATCAGCTTCAGGCCC
107463 P  G        A  ATGACGTGGCAGACGCCTGGCACCTTAACY
107463 P  T        A  CGCGCCGAGGTCCTGGCACCTTAACTTY
107463 T  G        A  TTGAAAGTTAAGGTGCCAGGAGGCCTGAAGCTGATGGGCTGGCCTT
107463 T  T        A  TTGAAAGTTAAGGTGCCAGAAGGCCTGAAGCTGATGGGCTGGCCTT

107463 IS  [GT]      AGGACCTAGACAGGCATGAAGAAACAGGTGTCAGCAAGGCCAGCCCATCAGCTTCAGGCC[GT]CCTGGCACCTTAACTTTCAACCGCAAGAAGTTTACCACTCATACATGTGTGTCACTCTGA
107468 I           S  CCTTCAAGGAGGGGTTGTACCGCACCTTCT
107468 P  C        S  ATGACGTGGCAGACGCCTCTCGTAGGTTGATAGGY
107468 P  T        S  CGCGCCAGGATCCTCTGTAGGTTGATAGGY
107468 T  C        S  GTCGCCTATCAACCTACAGAGGACGAAGGTGCGGTACAACCCCTCCTTGAAGGGG
107468 T  T        S  GTCGCCTATCAACCTACAGAGGATGAAGGTGCGGTACAACCCCTCCTTGAAGGGG

107468 IS  [CT]      GGCCACAGCACTACCCCGCCTGTGGGGGCCAGAGACAGTCGCCTATCAACCTACAGAGGA[CT]GAAGGTGCGGTACAACCCCTCCTTGAAGGGGCTCAATATGACAGGCTATGAGATCCAGGC  CAG
107476 I           S  TTTCTGCAGCACTACAGTTATCCAAAATGTCAATAAAGCC
107476 P  C        S  ATGACGTGGCAGACGCAAGTGAAGATTCGAGCY
107476 P  A        S  CGCGCCGAGGTCAAGTGAAGATTCGAGCY
107476 T  C        S  CTTCGCTCGAATCTTCACTTGAGCTTTATTGACATTTTGGATAACTGTAGTGCTGCAGAAAAA
107476 T  A        S  CTTCGCTCGAATCTTCACTTGAGCTTTATTGACATTTTGGATAACTGTAGTGCTGCAGAAAAA

107476 IS  [CA]      TTTCTAAAAGGTTGAAACGTTACCTGCTACATTATCTTTCTTCGCTCGAATCTTCACTTG[CA]GCTTTATTGACATTTTGGATAACTGTAGTGCTGCAGAAAAAAGAGAAAGACTTTATTTAGC
107479 I           S  GCAGAGAGAAAGAAATTTGTAAAATACTCTTTGGTTCTGCTGGGTCC
107479 P  A        S  CGCGCCGAGGTGTTCTTGCCTAACTGAAAAY
107479 P  T        S  ATGACGTGGCAGACAGTTCTTGCCTAACTGAAAAY
107479 T  A        S  AGGTTTTTCAGTTAGGCAAGAACAGACCCAGCAGAACCAAAGAGTATTTTACAAATTCTTTCTCTCTGCAG
107479 T  T        S  AGGTTTTTCAGTTAGGCAAGAACTGACCCAGCAGAACCAAAGAGTATTTTACAAATTCTTTCTCTCTGCAG

107479 IS  [AT]      CATTTTCAGCTGTTCCCCTAACTCATCAAAAGTGTTCAGGTTTTTCAGTTAGGCAAGAACA[AT]GACCCAGCAGAACCAAAGAGTATTTTACAAATTCTTTCTCTCTGCAGATGCAAAGATA
107486 I           A  CATCATCATGGACAAGCACATAAAAGTAAATGATGTGTATTTACTGAGAAGTCAGT
107486 P  A        A  CGCGCCGAGGAAACAGTCAGGTTTGAGATTY
107486 P  G        A  ATGACGTGGCAGACGAACAGTCAGGTTTGAGATTY
107486 T  A        A  TTTAAATCTCAAACCTGACTGTTACTCACTTCTCAGTAAATACACATCATTTACTTTTATGTGCTTCTCCATGATGATGTC
107486 T  G        A  TTTAAATCTCAAACCTGACTGTTCACTCACTTCTCAGTAAATACACATCATTTACTTTTATGTGCTTCTCCATGATGATGTC

107486 IS  [AG]      GGGACATCATCATGGAGAAGCACATAAAGTAAATGATGTGTATTTACTGAGAAGTCAGT[AG]AACAGTCAGGTTTGAGATTTAAAGATAGTTTACCTATGTTCTAATTTTATTTACAGGCAG
107497 I           S  CACGGACCTAAGAGACAGAAATGCAGGTCATTAGCAT
107497 P  G        S  CGCGCCGAGGCCAAATAAAACCTCGTTCTGY
107497 P  C        S  ATGACGTGGCAGACGCAAATAAAACCTCGTTCTGY
107497 T  G        S  AGAGCAGAACGAGGTTTTATTTGGTGCTAATGACCTGCATTCTCTCTCTTAGGTCCGTGGC
107497 T  C        S  AGAGCAGAACGAGGTTTTATTTGCTGCTAATGACCTGCATTCTCTCTCTTAGGTCCGTGGC

107497 IS  [GC]      AAACTCTAGTAAAAGTGATGATGGTTAAGACAACAAGAGAGCAGAACGAGGTTTTATTTG[GC]TGCTAATGACCTGCATTCTCTCTCTTAGGTCCGTGGCACTCAGGTAGTTGGTTCTGACAT
107504 I           A  CCTGCATCACATGGTTCCCCTACAGCGCTTTTGT
107504 P  A        A  CGCGCCGAGGATTCCGCAACAACAGAGCY
107504 P  C        A  ATGACGTGGCAGACCTTCCGCAACAACAGAGCY
107504 T  A        A  ACCTGTCTGTGTTGTCCGAATCAAAAGCGCTGTAGGAACCATGTGATGCAGGTC
107504 T  C        A  ACCTGTCTGTGTTGTCCGAAGCAAAAGCGCTGTAGGAACCATGTGATGCAGGTC

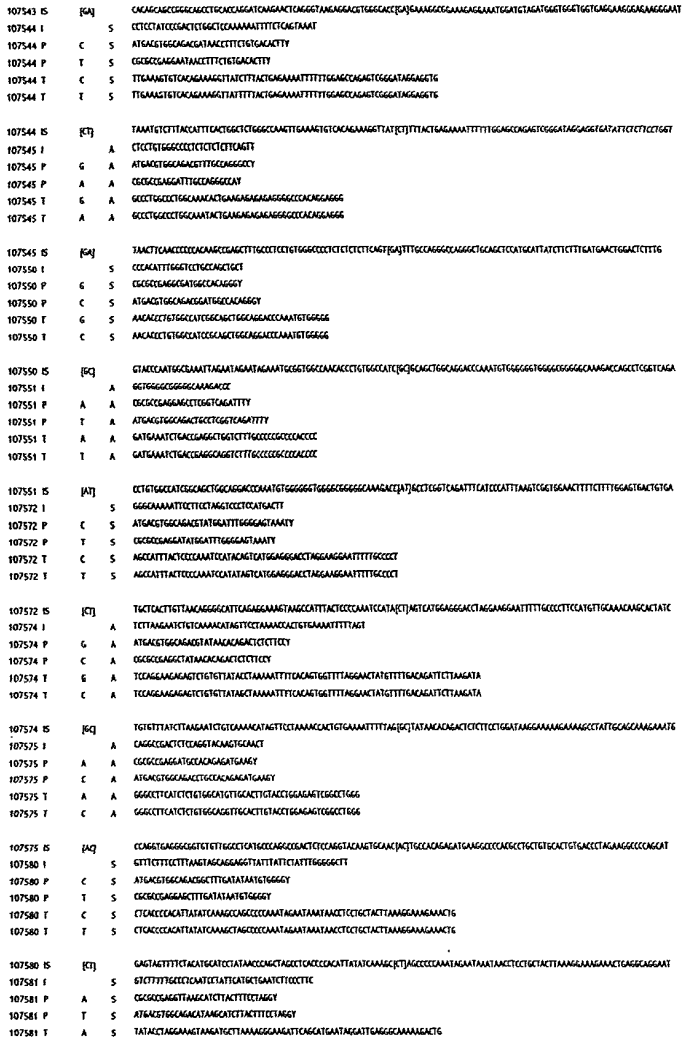
107504 IS  [AC]      CCTTATCAGCGGCAGGCACAGGCAGGGACCTGCATCACATGGTTCCCTACAGCGCTTTTG[AC]TTCCGCAACACAGACAGGTCCTACTCAAAATACAAATAGAAAAAGACTTCGATTAGCAA
107508 I           S  CAGTGGCAGGGTCCCCTCAGGCTATTT
107508 P  C        S  ATGACGTGGCAGACGGGAACATTTATTTTTCCTTGAY
107508 P  G        S  CGCGCCGAGGCGCAACATTTATTTTTCCTTGAY
107508 T  C        S  TGTTTCAAGGAAAAATAAATGTTCCCAATAGCCTGAGGGGACCCTGCCACTGGA
107508 T  G        S  TGTTTCAAGGAAAAATAAATGTTCCGAATAGCCTGAGGGGACCCTGCCACTGGA

107508 IS  [CG]      CCAAACAGCACACGCAGGCCTCCTAGGAGGCTTCATGTTTCAAGGAAAAATAAATGTTCC[CG]AATAGCCTGAGGGGACCCTGCCACTGGAATCTCAAGCTCCTGCTCAAACCACACCTCACA
107511 I           S  GGCATCAAAAGTTGTTCTCAGCCTCAGGGAATATTCTACCAATAACAGT
107511 P  C        S  ATGACGTGGCAGACGTCTGTTAGAAAGAATCTTGGAY
107511 P  T        S  CGCGCCGAGGATCTGTTAGAAAGAATCTTGGAAY
107511 T  C        S  ATTTTTCCAAGATTCTTTCTAACAGACTGTTATTGGTAGAAATATTCCCTGAGGCTAAGAACAACTTTTGATGCCTC
107511 T  T        S  ATTTTTCCAAGATTCTTTCTAACAGATCTGTTATTGGTAGAAATATTCCCTGAGGCTAAGAACAACTTTTGATGCCTC

107511 IS  [CT]      TAATGAGCATTTCCTGTATTGGAATAACTGCATCATTTTTCCAAGATTCTTTCTAACAGA[CT]CTGTTATTGGTAGAAATATTCCCTGAGGCTAAGAACAACTTTTGATGCCTCTCCAGCTAC
107523 I           A  GGGCCAGTACGCCTGTGTATTGGCGAT
107523 P  G        A  ATGACGTGGCAGACGTGTAAGCCAGAGTTCATGY
107523 P  A        A  CGCGCCGAGGATGTAAGCCAGAGTTCATGY
107523 T  G        A  TCGTCATGAACTCTGGCTTACACTCGCCAATACACAGGCGTACTGGCCCCGG
107523 T  A        A  TCGTCATGAACTCTGGCTTACATTCGCCAATACACAGGCGTACTGGCCCCGG

107523 IS  [GA]      TGAGATGGGCCATGCCCTGGTGGGAACCACCTCCGGGCCAGTACGCCTGTGTATTGGCGA[GA]TGTAAGCCAGAGTTCATGACGAAGTCCCATCAGCAGTACACCTTCGTGGTGAGTACTGGG
107540 I           A  CTGAGCAAAACCAAAAAAAAAAAGAGAGGGGGAGAGAGAGAAAA
107540 P  T        A  CGCGCCGAGGTGGCATAATTCAGAGATAAGGY
107540 P  C        A  ATGACGTGGCAGACCGGCATAATTCAGAGATAAGGY
107540 T  T        A  TCCTCCTTATCTCTGAATTATGCCATTTCTCTCTCTCCCCCTCTCTTTTTTTTTTGGTTTTGCTCAGTG
107540 T  C        A  TCCTCCTTATCTCTGAATTATGCCGTTTCTCTCTCTCCCCCTCTCTTTTTTTTTTGGTTTTGCTCAGTG

107540 IS  [TC]      ACCAGCAAGGCCACAGCACTGAGCAAAACCAAAAAAAAAAAGAGAGGGGGAGAGAGAGAAA[TC]GGCATAATTCAGAGATAAGGAGGAACCCTCTCAGGTATGCGGATTGCAACATTAGTGCAA
107543 I           A  GAACTCAGGGTAAGAGGACTGGGCACCT
107543 P  G        A  ATGACGTGGCAGCGAAAGGCGGAAAGAGY
107543 P  A        A  CGCGCCGAGCAGAAGGCGGAAAGAGY
107543 T  G        A  ATTTCCTCTTTCCGCCTTTCCGGTGCCCAGTCCTCTTACCCTCAGTTCTT
107543 T  A        A  ATTTCCTCTTTCCGCCTTTCTGGTGCCCAGTCCTCTTACCCTCAGTTCTT
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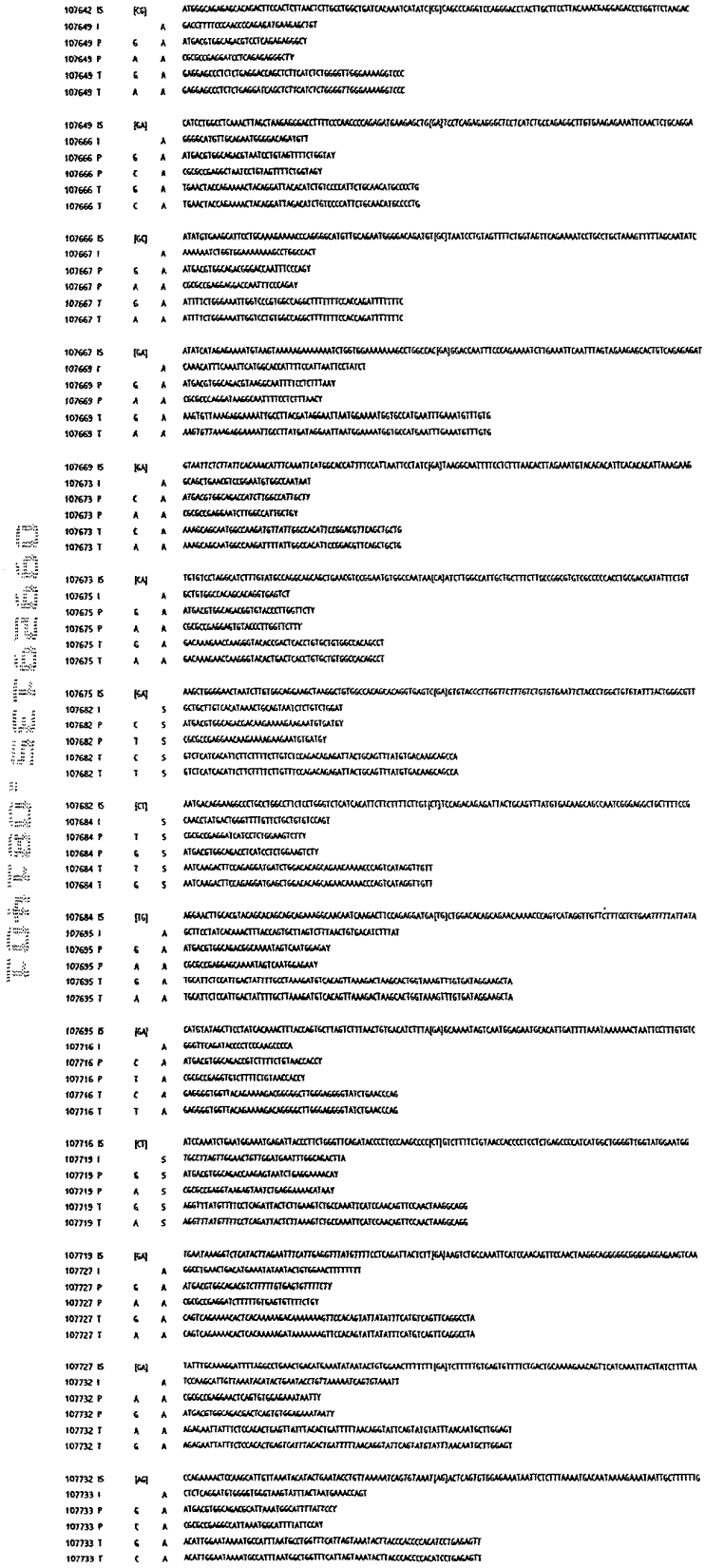
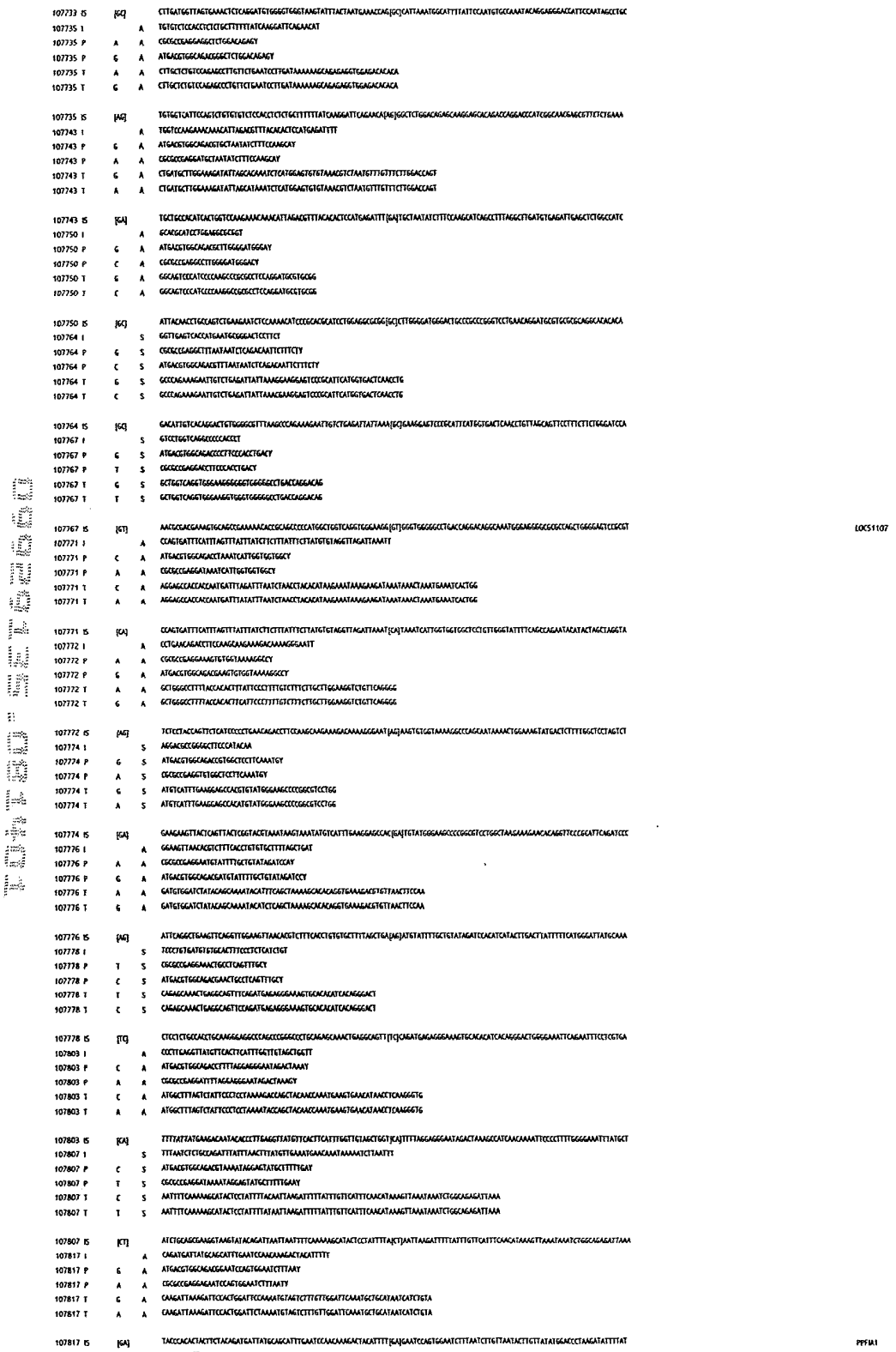


FIGURE 129G


107733 IS [GC] CTTGATGGTTAGTGAAACTCTCAGGATGTGGGGTGGGTAAGTATTTACTAATGAAACCAG[GC]CATTAAATGGCATTTTATTCCAATGTGCGAAATACAGGAGGAACCATTCCAATAGCCTGC
107735 I A TGTGTCTCCACCTCTCTGCTTTTTTATCAAGGATTCAGAACAT
107735 P A A CGCGCCGAGGAGGCTCTGGACAGAGY
107735 P G A ATGACGTGGCAGAGGGCTCTGGACAGAGY
107735 T A A CTTGCTCTGTCCAGAGCCTGTCTGAATCCTTGATAAAAAAGCAGAGAGGTGGAGACACACA
107735 T G A CTTGCTCTGTCCAGAGCCTGTCTGAATCCTTGATAAAAAAGCAGAGAGGTGGAGACACACA

107735 IS [AG] TGTGGTCATTCCAGTCTGTGTGTCTCCACCTCTCTGCTTTTTTATCAAGGATTCAGAACA[AG]GGCTCTGGACAGAGCAAGGAGCAGCACAGACCAGGACCCATCGGGCAACGAGCGTTCTCTGAAA
107743 I A TGGTCCAAGAAACAAACATTAGAGGTTTACACACTCCATGAGATTTT
107743 P G A ATGACGTGGCAGAGGTGCTAATATCTTTCCAAGCAY
107743 P A A CGCGCCGAGGATGCTAATATCTTTCCAAGCAY
107743 T G A CTGATGCTTGGAAAGATATTAGCACAAATCTCATGGAGTGTGTAAACGTCTAATGTTTGTTCTTGGACCAGT
107743 T A A CTGATGCTTGGAAAGATATTAGCATAAATCTCATGGAGTGTGTAAACGTCTAATGTTTGTTCTTGGACCAGT

107743 IS [GA] TGCTGCCACATCACTGGTCCAAGAAACAAACATTAGAGGTTTACACACTCCATGAGATTT[GA]TGCTAATATCTTTCCAAGCATCAGCCTTTAGGCTTGATGTGAGATTGAGCTCTGGCCATC
107750 I A GCACGCATCCTGGAGGCGCTGT
107750 P G A ATGACGTGGCAGACGCTTGGGGATGGGAY
107750 P C A CGCGCCGAGGCCTTGGGGATGGGACY
107750 T G A GGCAGTCCCATCCCCAAGCCCGCGGCTCCAGGATGCGTGCGG
107750 T C A GGCAGTCCCATCCCCAAGCCGCGGCTCCAGGATGCGTGCGG

107750 IS [GC] ATTACAACCTGCCAGTCTGAAGAATCTCCAAAACATCCCGCACGCATCCTGGAGGCGCGG[GC]CTTGGGGATGGGACTGCCCGCCCGGGTCCTGAACAGGATGCGTGCGCGCAGGCACACACA
107764 I S GGTTGAGTCACCATGAATGCGGGACTCCTTCT
107764 P G S CGCGCCGAGGCTTAATAATCTCAGACAATTCTTTCTY
107764 P C S ATGACGTGGCAGACTTTAATAATCTCAGACAATTCTTTCTY
107764 T G S GCCCAGAAAGAATTGTCTGAGATTATTAAACGAAGGAGTCCCGCATTCATGGTGACTCAACCTG
107764 T C S GCCCAGAAAGAATTGTCTGAGATTATTAAACGAAGGAGTCCCGCATTCATGGTGACTCAACCTG

107764 IS [GC] GACATTGTCACAGGACTGTGGGGCGTTTAAGCCCAGAAAGAATTGTCTGAGATTATTAAA[GC]GAAGGAGTCCCGCATTCATGCTGACTCAACCTGTTAGCAGTTCCTTTCTTCTGGGATCCA
107767 I S GTCCTGGTCAGGCCCCCACCCT
107767 P G S ATGACGTGGCAGACCCCTTCCCACCTGACY
107767 P T S CGCGCCGAGGACCTTCCCACCTGACY
107767 T G S GCTGGTCAGGTGGGAAGGGGGGTGGGGGCCTGACCAGGACAG
107767 T T S GCTGGTCAGGTGGGAAGGTGGGTGGGGGCCTGACCAGGACAG

107767 IS [GT] AACGCACGAAAGTGCAGCCGAAAAACACCGCAGCCCCCATGGCTGGTCAGGTGGGAAGG[GT]GGGTGGGGGCCTGACCAGGACAGGCAAATGGGAAGGGCCGCGCTAGCTGGGGAGTCCGCGT LOC51107
107771 I A CCAGTGATTTCATTTAGTTTATTTATCTTCTTTATTTCTTATGTGTAGGTTAGATTAAATT
107771 P C A ATGACGTGGCAGACCTAAATCATTGGTGGTGGCY
107771 P A A CGCGCCGAGGATAAATCATTGGTGGTGGCY
107771 T C A AGGAGCCACCACAATGATTTAGATTTAATCTAACCTACACATAAGAAATAAAGAAGATAAATAAACTAAATGAAATCACTGG
107771 T A A AGGAGCCACCACAATGATTTATATTTAATCTAACCTACACATAAGAAATAAAGAAGATAAATAAACTAAATGAAATCACTGG

107771 IS [CA] CCAGTGATTTCATTTAGTTTATTTATCTTCTTTATTTCTTATGTGTAGGTTAGATTAAAT[CA]TAAATCATTGGTGGTGGCTCCTGTTGGGTATTTTCAGCCAGAATACATACTAGCTAGGTA
107772 I A CCTGAACAGACCTTCCAAGCAAGAAAGACAAAAGGGAATT
107772 P A A CGCGCCGAGGAAAGTGTGGTAAAAGGCCY
107772 P G A ATGACGTGGCAGACGAAGTGTGGTAAAAGGCCY
107772 T A A GCTGGGCCTTTTACCACACTTCATTCCCTTTGTCTTTCTTGCTTGCAAGGTCTGTTCAGGGG
107772 T G A GCTGGGCCTTTTACCACACTTCATTCCCTTTGTCTTTCTTGCTTGGAAGGTCTGTTCAGGGG

107772 IS [AG] TCTCCTACCAGTTCTCATCCCCCTGAACAGACCTTCCAAGCAAGAAAGACAAAAGGGAAT[AG]AAGTGTGGTAAAAGCCCAGCAATAAAACTGGAAAGTATGACTCTTTTGGCTCCTAGTCT
107774 I S AGGACGCCGGGGCTTCCCATACAA
107774 P G S ATGACGTGGCAGACCGTGGCTCCTTCAAATGY
107774 P A S CGCGCCGAGGTGTGGCTCCTTCAAATGY
107774 T G S ATGTCATTTGAAGGAGCCACGTGTATGGGAAGCCCCGGCGTCCTGG
107774 T A S ATGTCATTTGAAGGAGCCACATGTATGGGAAGCCCCGGCGTCCTGG

107774 IS [GA] GAAGAAGTTACTCAGTTACTCGGTACCTAAATAAGTAAATATGTCATTTGAAGGAGCCAC[GA]TGTATGGGAAGCCCCGGCGTCCTGGCTAAGAAAGAACACAGGTTCCCGCATTCAGATCCC
107776 I A GGAAGTTAACACGTCTTTCACCTGTGTGCTTTTAGCTGAT
107776 P A A CGCGCCGAGGAATGTATTTTGCTGTATAGATCCAY
107776 P G A ATGACGTGGCAGACGATGTATTTTGCTGTATAGATCCY
107776 T A A GATGTGGATCTATACAGCAAAATACATTTCAGCTAAAAGCACACAGGTGAAAGACGTGTTAACTTCCAA
107776 T G A GATGTGGATCTATACAGCAAAATACATCTCAGCTAAAAGCACACAGGTGAAAGACGTGTTAACTTCCAA

107776 IS [AG] ATTCAGGCTGAAGTTCAGGTTGGAAGTTAACACGTCTTTCACCTGTGTGCTTTTAGCTGA[AG]ATGTATTTTGCTGTATAGATCCACATCATACTTGACTTATTTTTCATGGGATTATGCAAA
107778 I S TCCCTGTGATGTGTGCACTTTCCCTCTCATCTGT
107778 P T S CGCGCCGAGGAAACTGCCTCAGTTTGCY
107778 P C S ATGACGTGGCAGACGAACTGCCTCAGTTTGCY
107778 T T S CAGAGCAAACTGAGGCAGTTTCAGATGAGAGGGAAAGTGCACACATCACAGGGACT
107778 T C S CAGAGCAAACTGAGGCAGTTCCAGATGAGAGGGAAAGTGCACACATCACAGGGACT

107778 IS [TC] CTCCTCTGCCACTGCAAGGGAGGCCCAGCCCGGGCCCTGCAGAGCAAACTGAGGCAGTT[TC]CAGATGAGAGGGAAAGTGCACACATCACAGGGACTGGGGAAATTCAGAATTTCCTCGTGA
107803 I A CCCTTCAGGTTATGTTCACTTCATTTGGTTGTAGCTGGTT
107803 P C A ATGACGTGGCAGACCTTTAGCAGGGAATAGACTAAAY
107803 P A A CGCGCCGAGGATTTTAGCAGGGAATAGACTAAAGY
107803 T C A ATGGCTTTAGTCTATTCCCTCCTAAAAGACCAGCTACAAACAAATGAAGTGAACATAACCTCAAGGGTG
107803 T A A ATGGCTTTAGTCTATTCCCTCCTAAAATACCAGCTACAAACAAATGAAGTGAACATAACCTCAAGGGTG

107803 IS [CA] TTTTATTATGAAGACAATACACCCTTGAAGGTTATGTTCACTTCATTTGGTTGTAGCTGGT[CA]TTTTTAGGAGGGAATAGACTAAAGCCATCAACAAAATTCCCCTTTTGGGGAAATTTATGCT
107807 I S TTTAATCTCTGCCAGATTTATTTAACTTTATGTTGAAATGAACAAATAAAAATCTTAATTT
107807 P C S ATGACGTGGCAGACGTAAAATAGGAGTATGCTTTTGAY
107807 P T S CGCGCCGAGGATAAAATAGGAGTATGCTTTTGAAY
107807 T C S AATTTTCAAAAAGCATACTCCTATTTTATAATTAAGATTTTATTTGTTCATTTCAACATAAAGTTAAATAAATCTGGCAGAGATTAAA
107807 T T S AATTTTCAAAAAGCATACTCCTATTTTATAATTAAGATTTTATTTGTTCATTTCAACATAAAGTTAAATAAATCTGGCAGAGATTAAA

107807 IS [CT] ATCTGCAGCGAAGGTAAGTATACAGATTAATTAATTTTCAAAAAGCATACTCCTATTTTA[CT]ATTAAGATTTTTATTTGTTCATTTCAACATAAAGTTAAATAAATCTGGCAGAGATTAAA
107817 I A CAGATGATTATGCAGCATTTGAATCCAACAAAGACTACTTTT
107817 P G A ATGACGTGGCAGACGGAATCCAGTGGAATCTTTAAY
107817 P A A CGCGCCGAGGAGAATCCAGTGGAATCTTTAATY
107817 T G A CAAGATTAAAGATTCCACTGGATTCCAAAATGTAGTCTTTGTTGGATTCAAATGCTGCATAATCATCTGTA
107817 T A A CAAGATTAAAGATTCCACTGGATTCTAAAATGTAGTCTTTGTTGGATTCAAATGCTGCATAATCATCTGTA

107817 IS [GA] TACCCACACTACTTCTACAGATGATTATGCAGCATTTGAATCCAACAAAGACTACATTTT[GA]GAATCCAGTGGAATCTTTAATCTTGTTATACTTGTTATATGGACCCTAAGATATTTTAT PPFIA1
107819 I A CAGACTTGTTCCAGTCGGAACAGTTAGCTCCTTACAAC
107819 P T A CGCGCCGAGGTCTCCAGATACCTTCAGAAAY
107819 P G A ATGACGTGGCAGACGCTCCAGATACCTTCAGAAY
107819 T T A TCTGTTTCTGAAGGTATCTGGAGATTGTAAGGAGCTAACTGTTCCGACTGGAACAAGTCTGCC
107819 T G A TCTGTTTCTGAAGGTATCTGGAGCTTGTAAGGAGCTAACTGTTCCGACTGGAACAAGTCTGCC

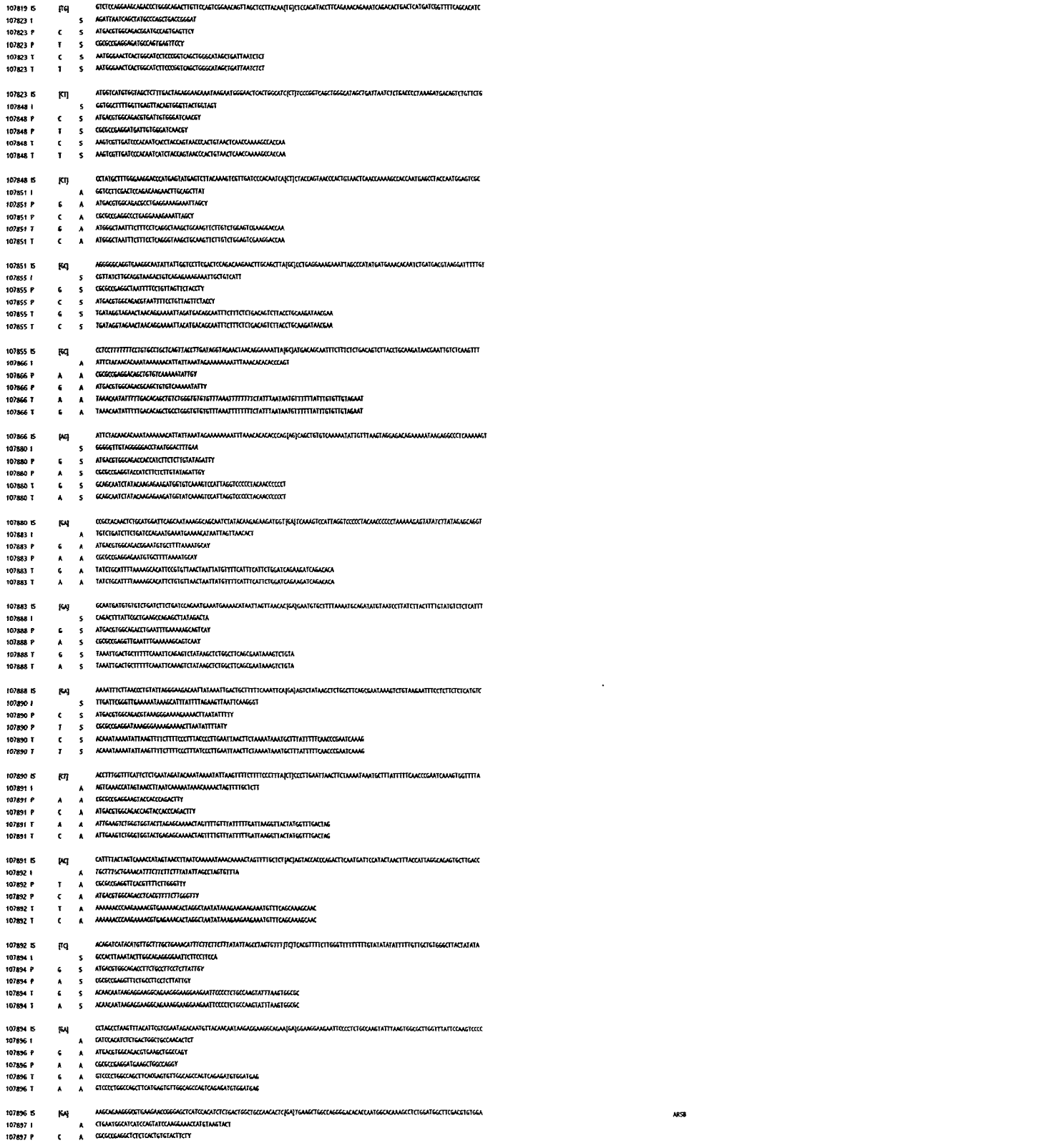


FIGURE 129G

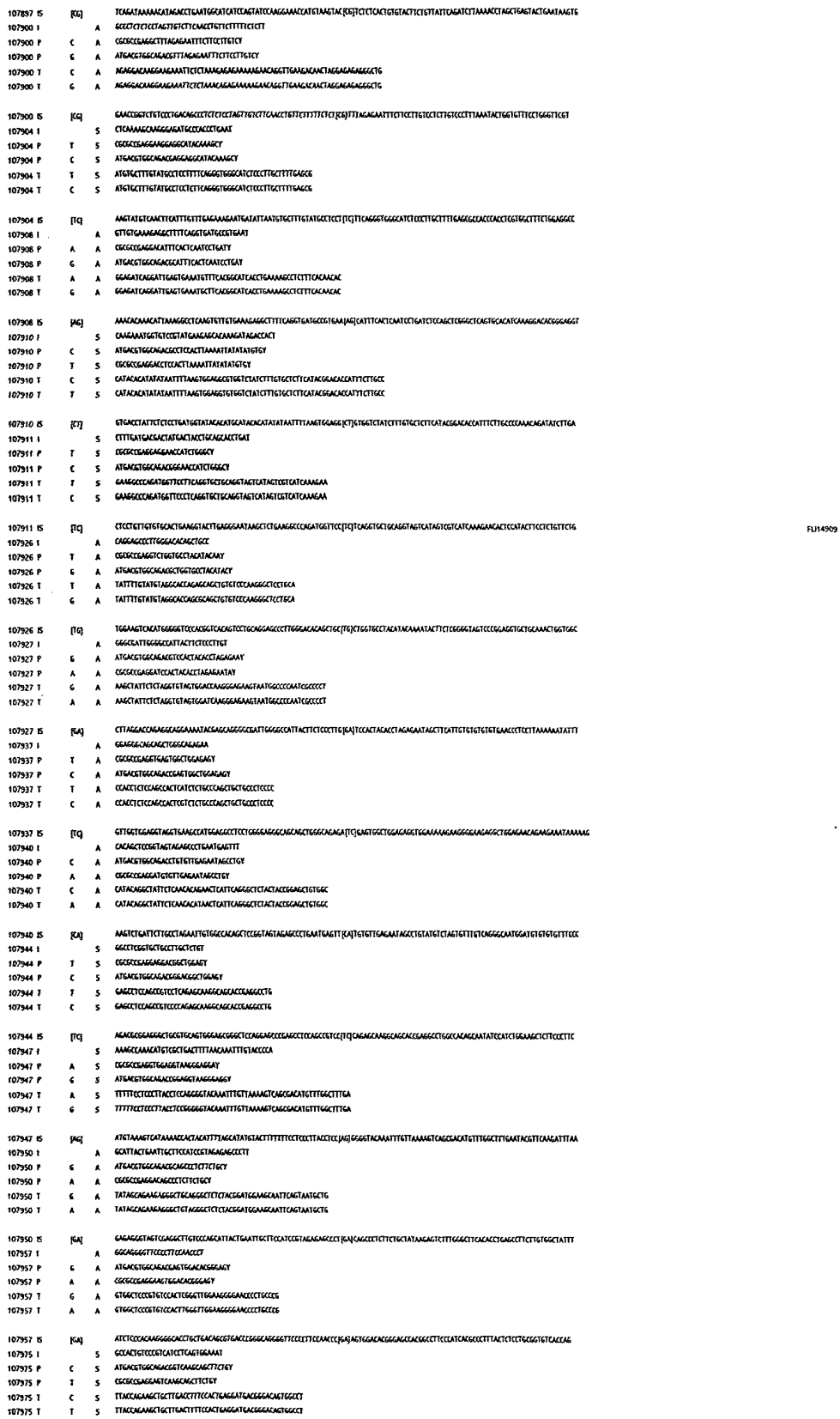
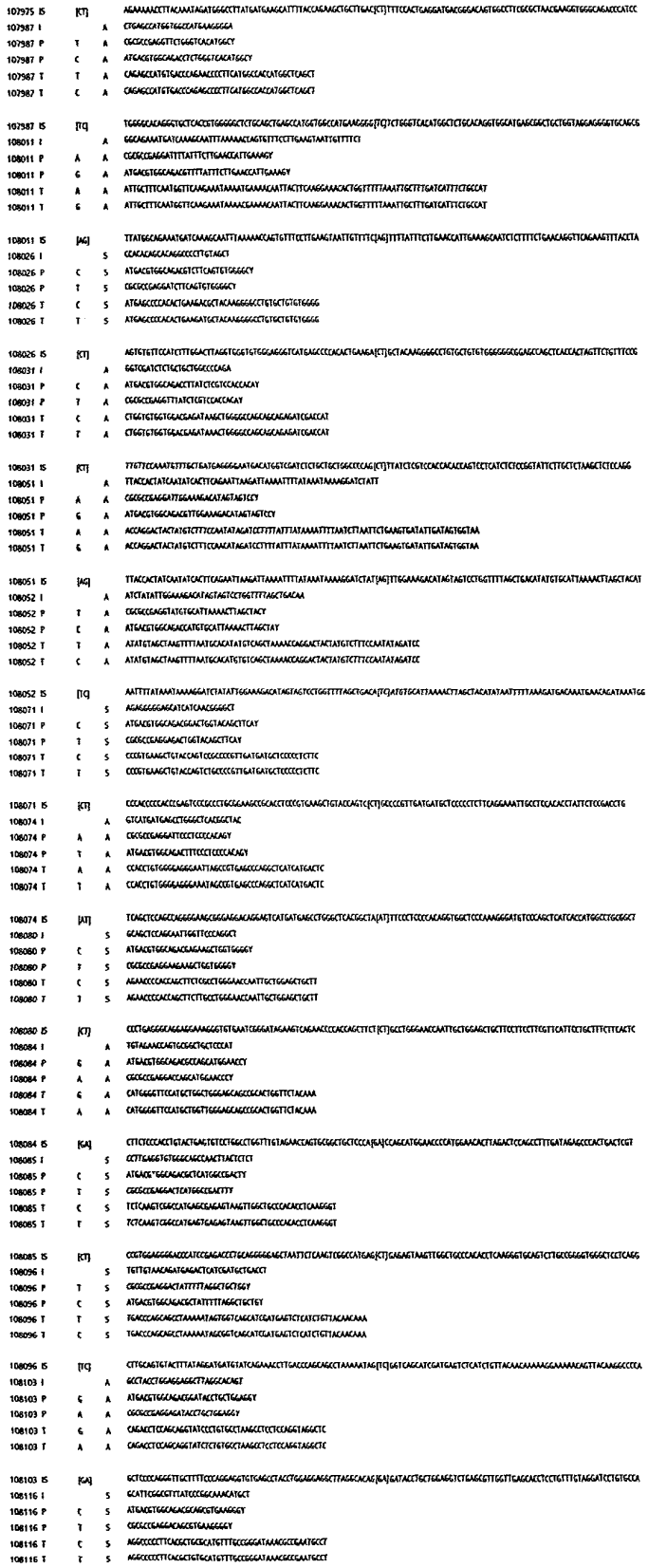
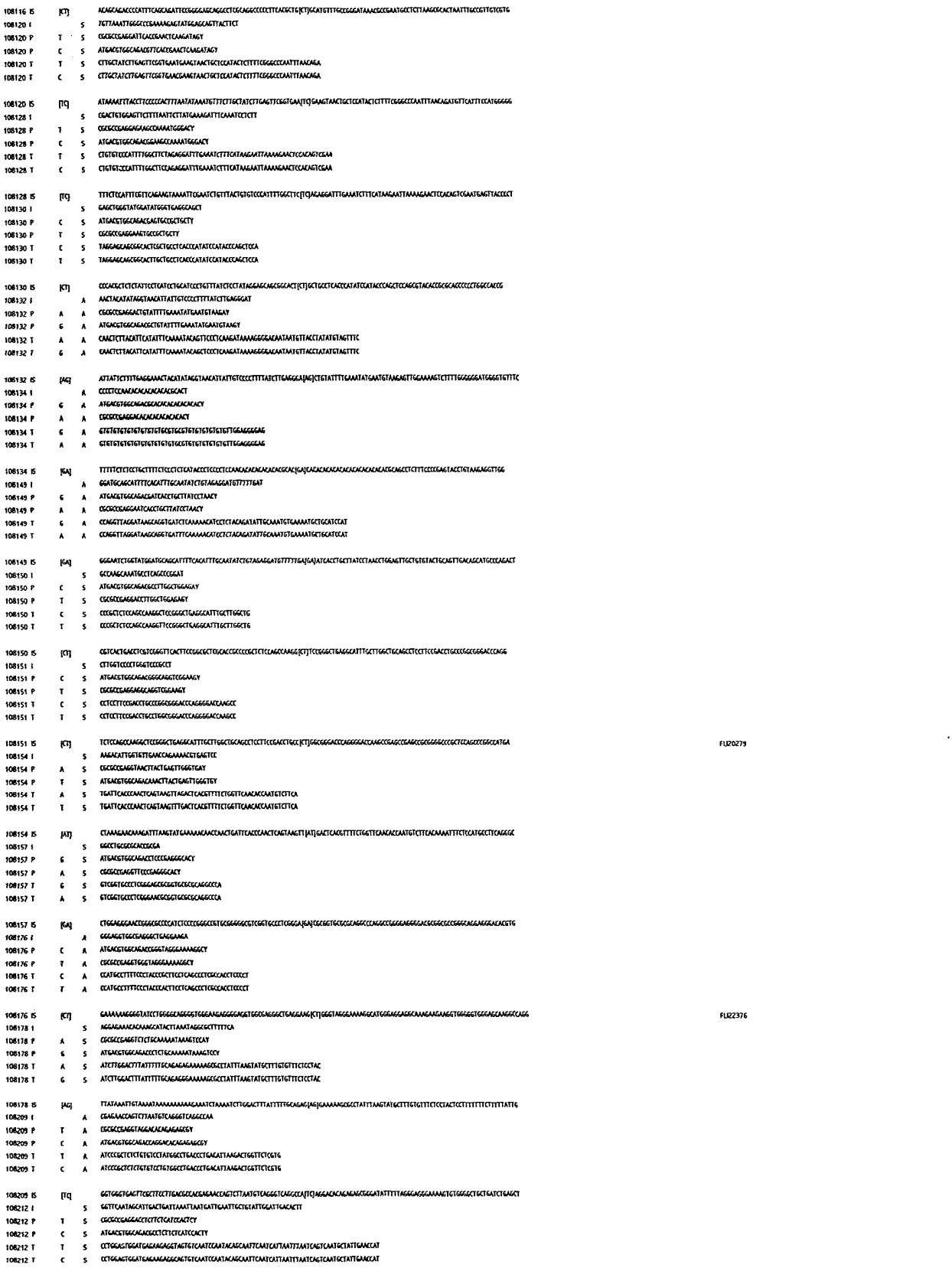


FIGURE 129G





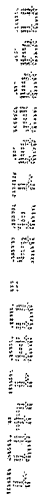


FIGURE 129G

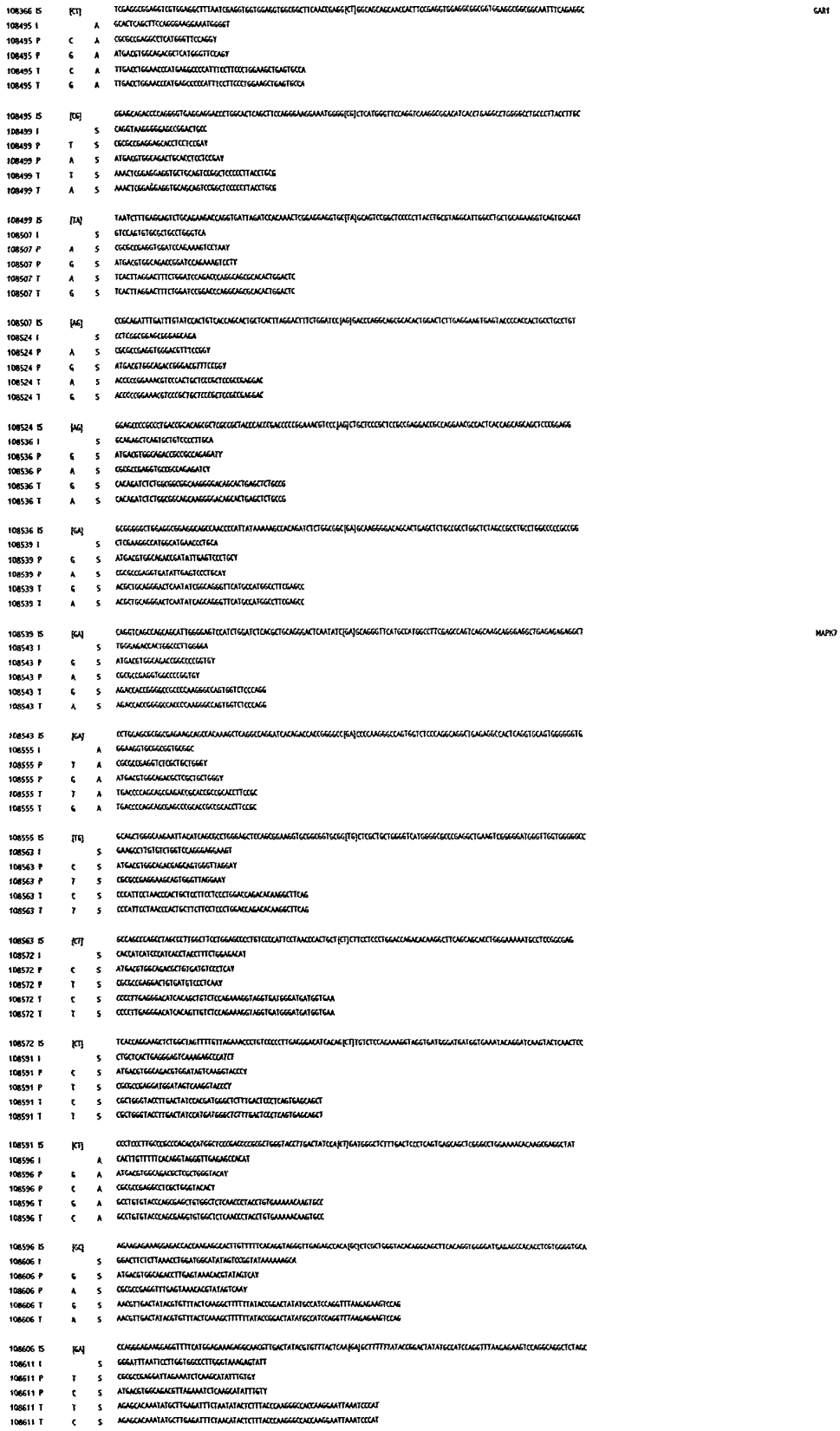


FIGURE 129G

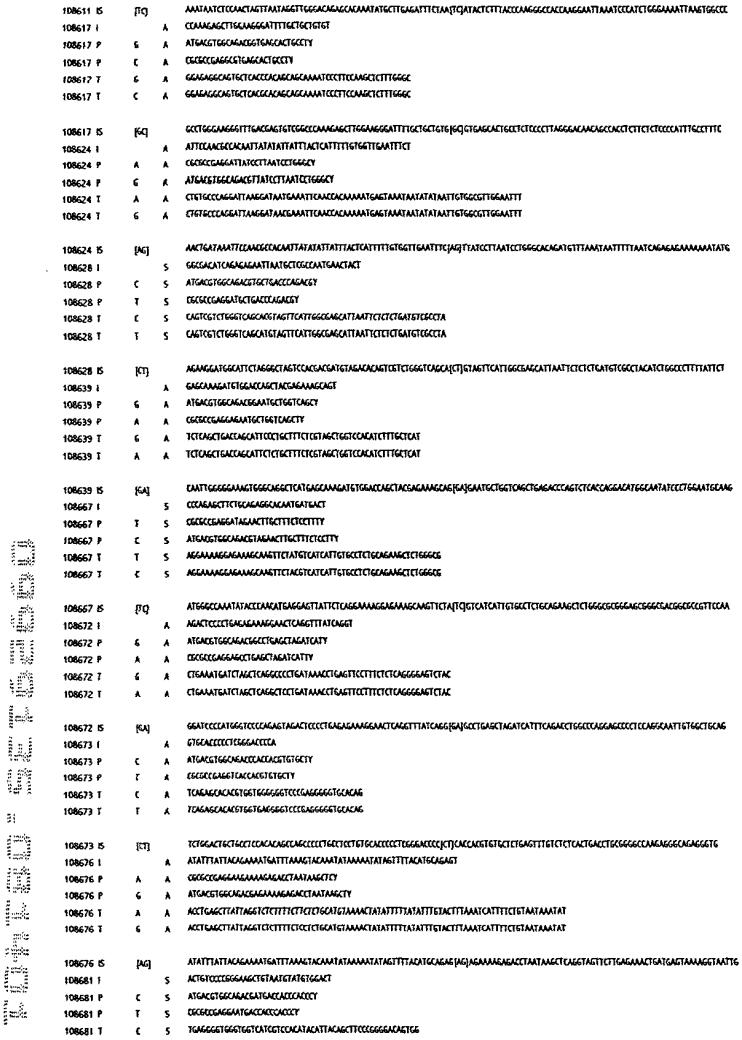


FIGURE 129G

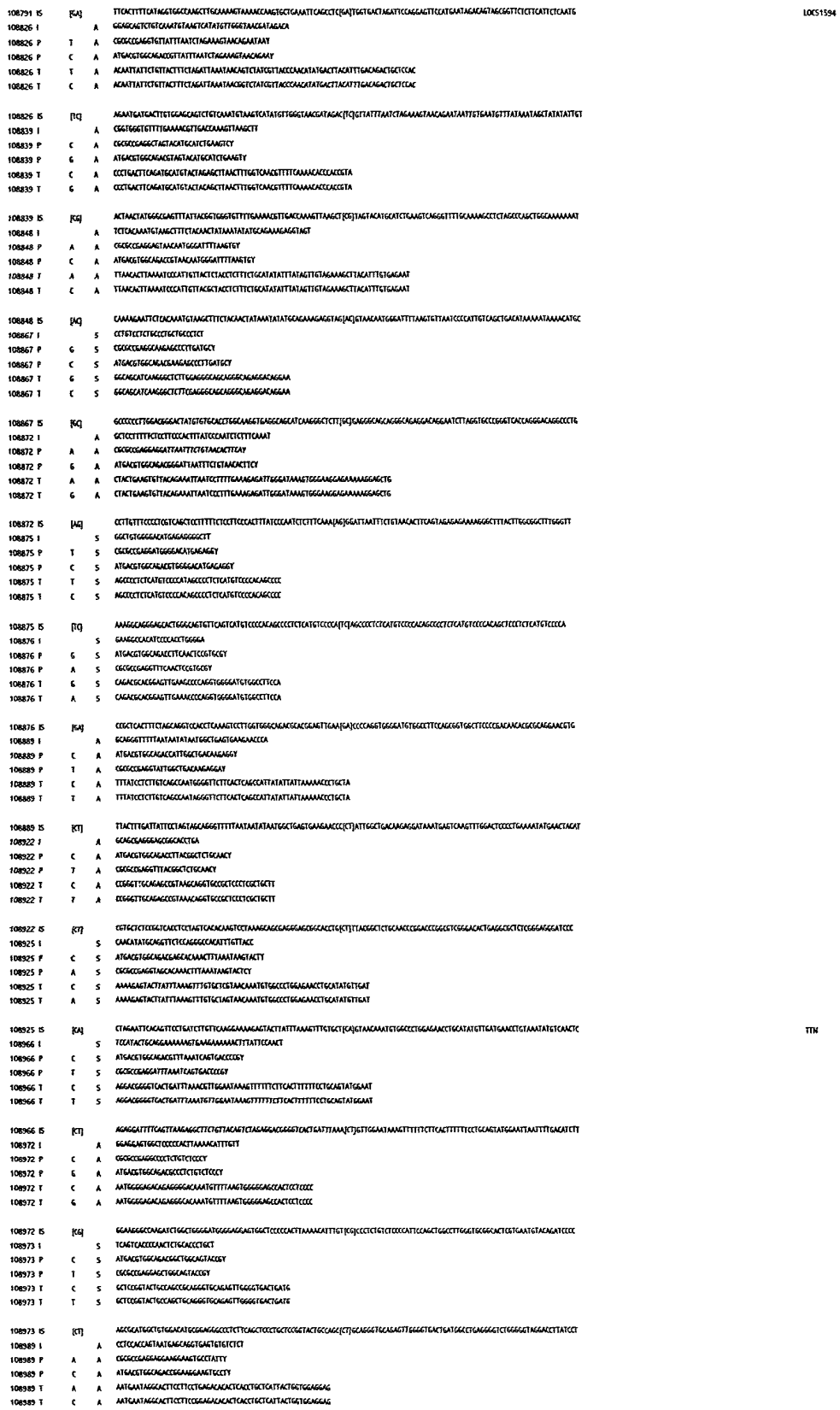
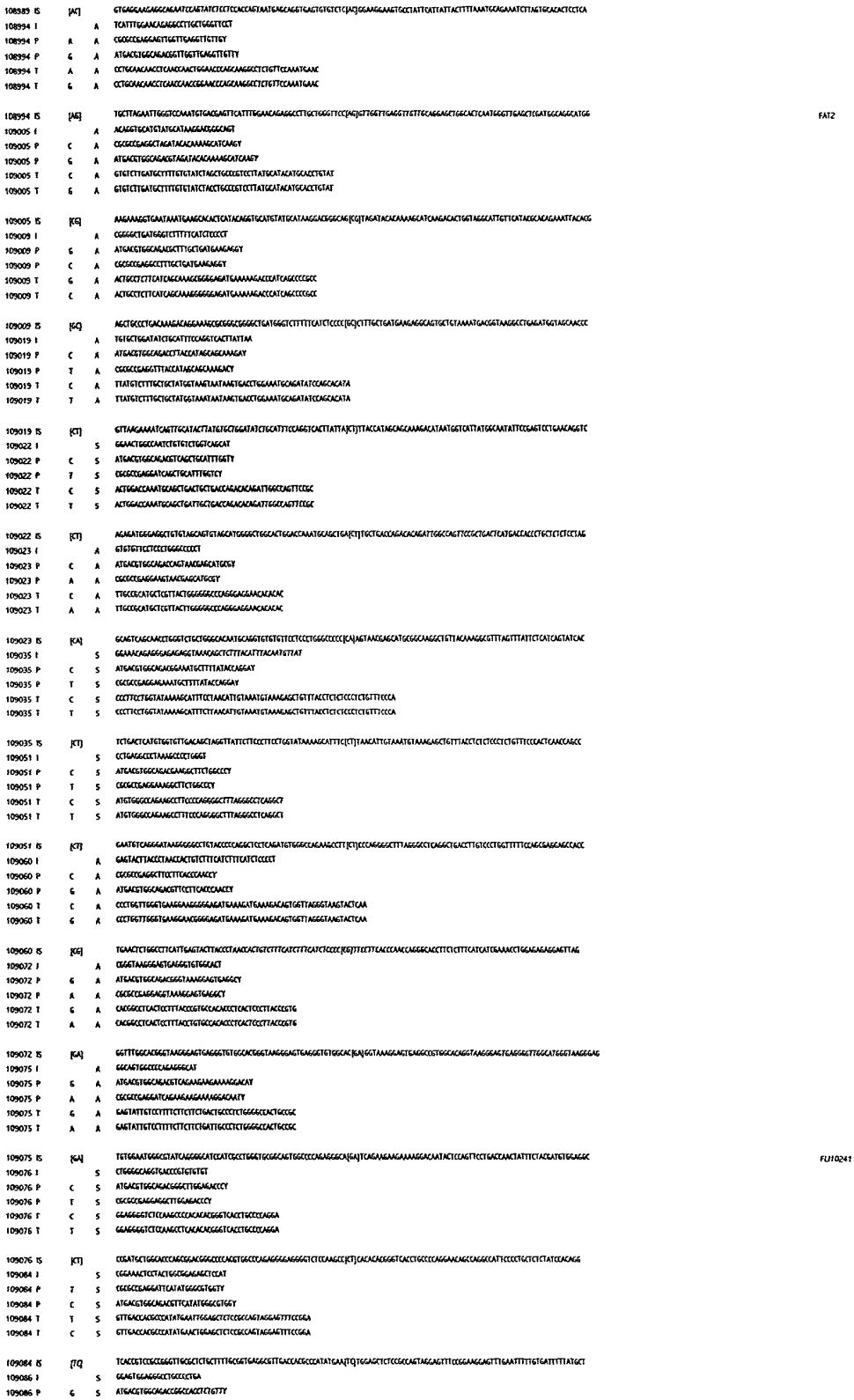
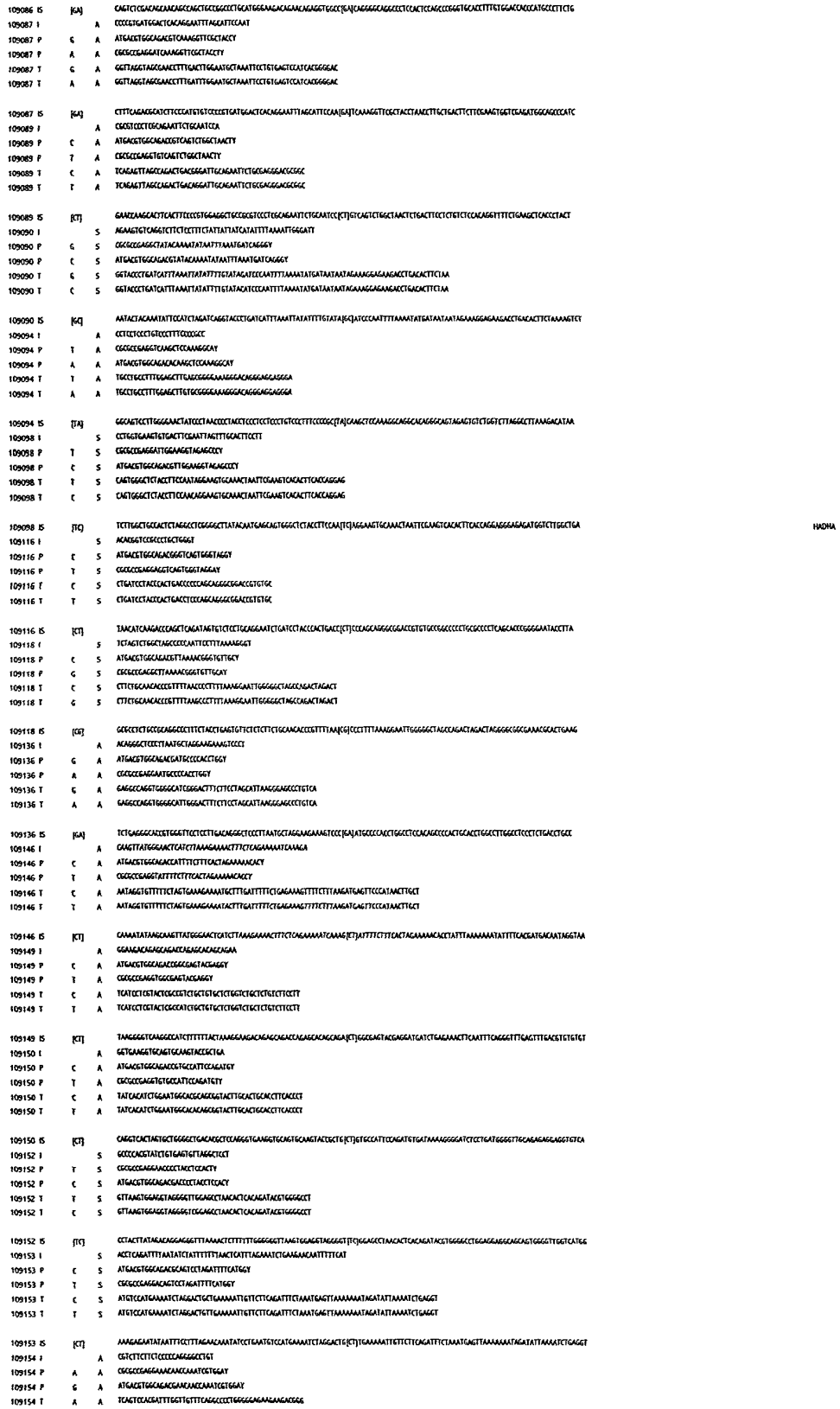
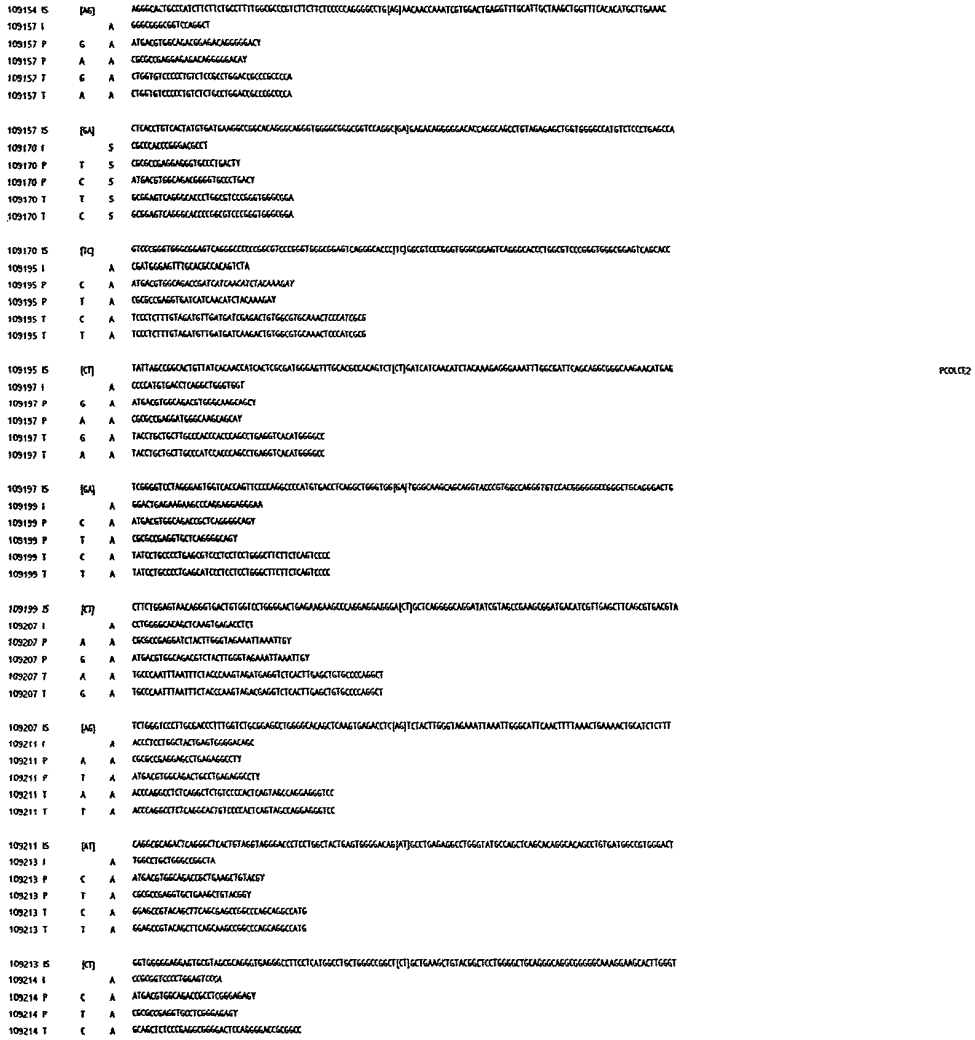


FIGURE 129G



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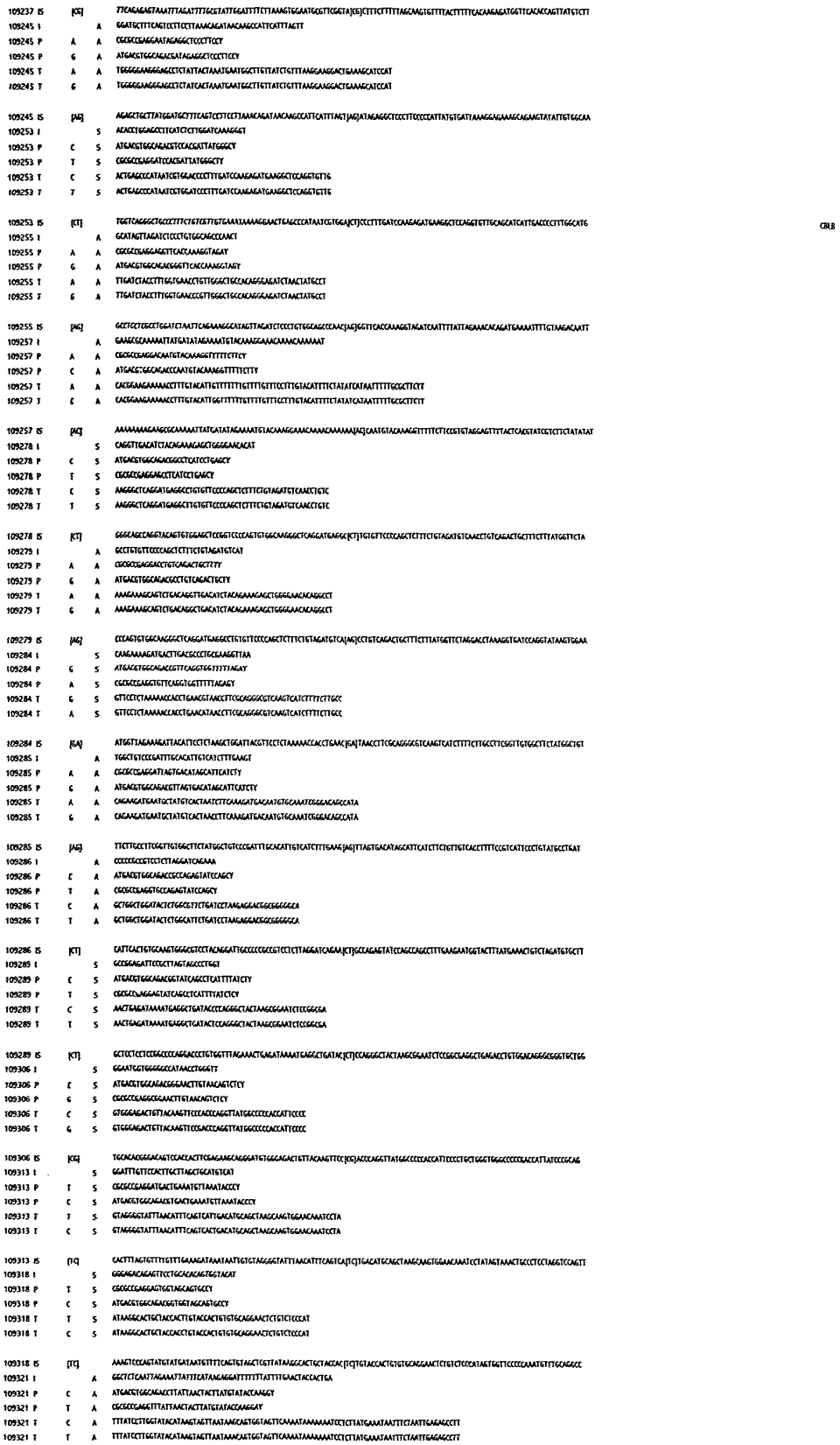


FIGURE 129G

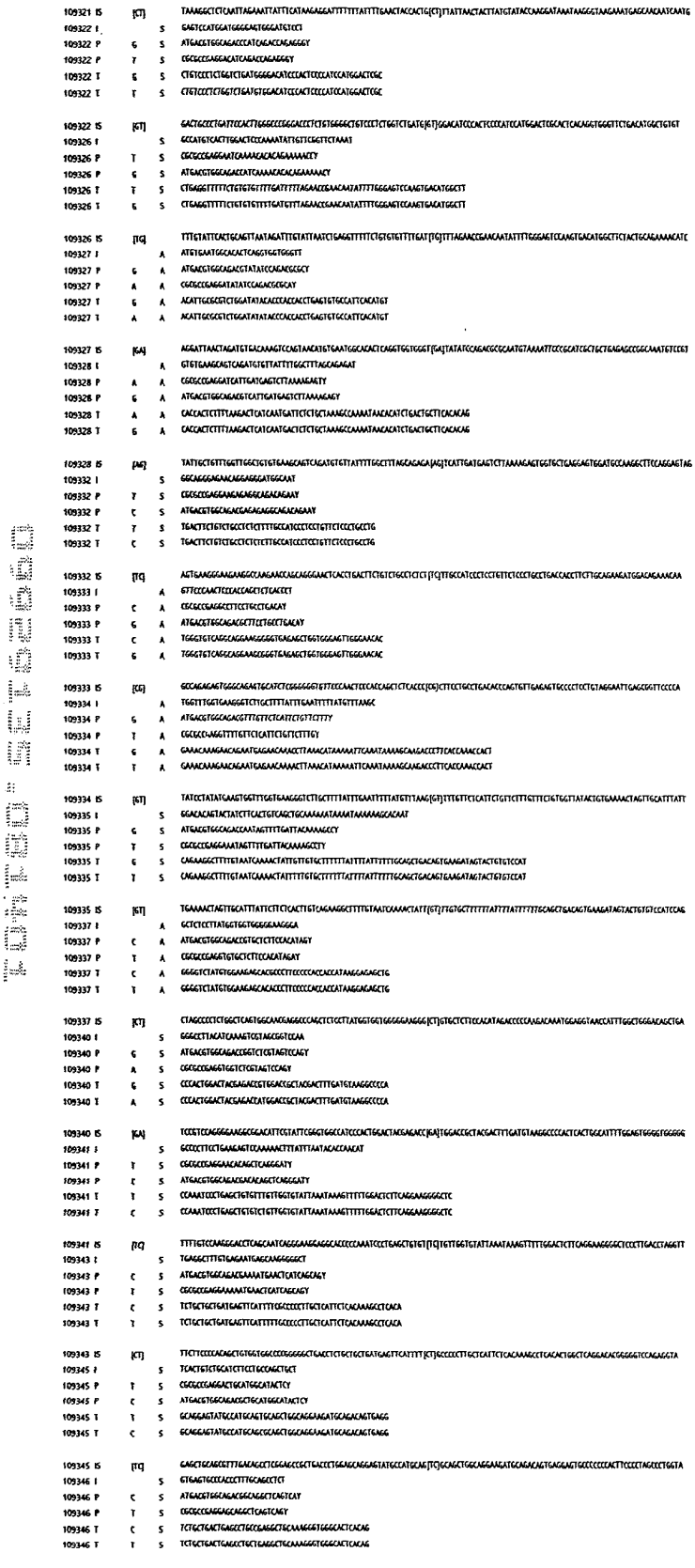
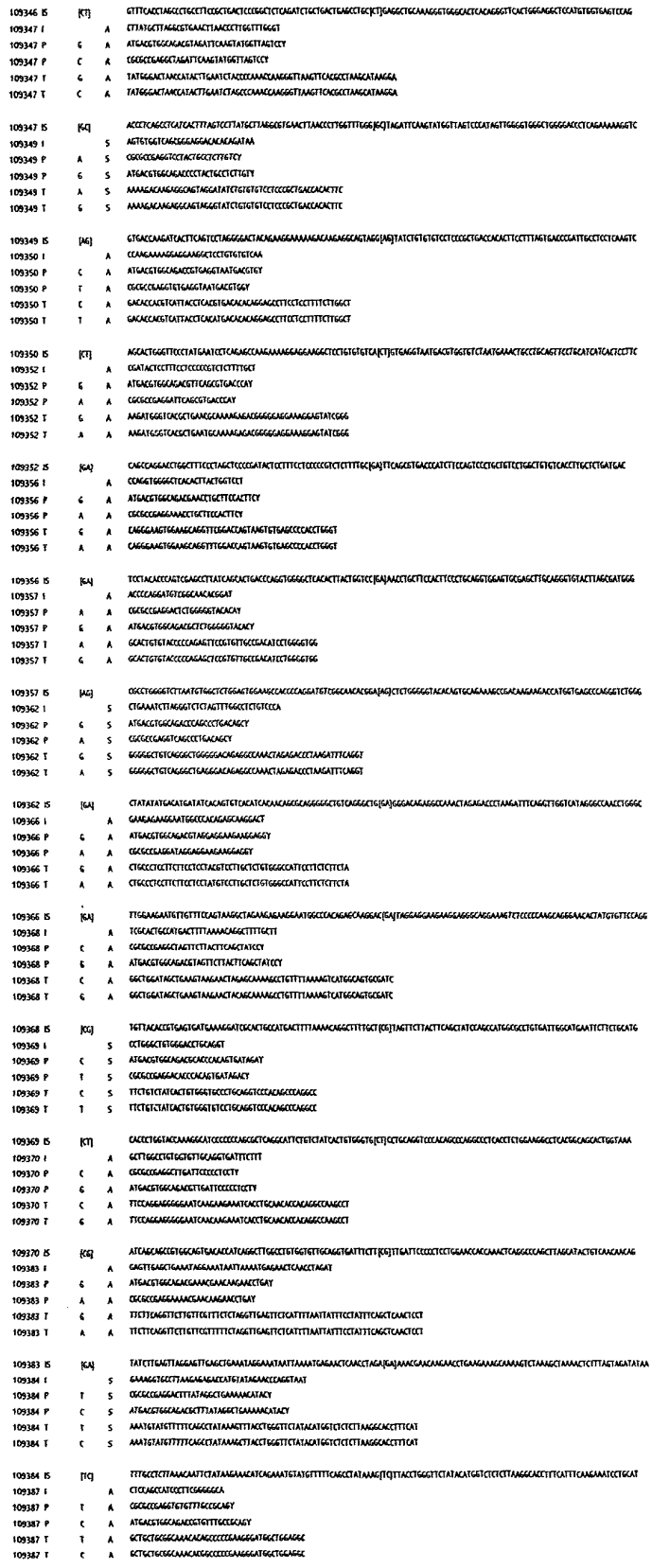


FIGURE 129G


109346 IS [CT] GTTTCACCTAGCCCTGCCTTCCGCTGACTCCCGGCTCTCAGATCTGCTGACTGAGCCTGC[CT]GAGGCTGCAAGGGTGGGCACTCACAGGGTTCACTGGGAGGCTCCATGTGGTGAGTCCAG
109347 I A CTTATGCTTAGGCGTGAACTTAACCCTTGGTTTGGGT
109347 P G A ATGACGTGGCAACGTAGATTCAAGTATGGTTAGTCCY
109347 P C A CGCGCCGAGGCTAGATTCAAGTATGGTTAGTCCY
109347 T G A TATGGGACTAACCATACTTGAATCTACCCCAAACCAAGGGTTAAGTTCACGCCTAAGCATAAGGA
109347 T C A TATGGGACTAACCATACTTGAATCTAGCCCAAACCAAGGGTTAAGTTCACGCCTAAGCATAAGGA

109347 IS [GC] ACCCTCAGCCTCATCACTTTAGTCCTTATGCTTAGGGTGTGAACTTAACCCTTGGTTTGGG[GC]TAGATTCAAGTATGGTTAGTCCCATAGTTGGGGTGGGCTGGGGAACCCTCAGAAAAAGGTC
109349 I S AGTGTGGTCAGCGGCAGGACACACAGATAA
109349 P A S CGCGCCGAGGTCCTACTGCCTCTTGTCY
109349 P G S ATGACGTGGCAGACCCCTACTGCCTCTTGTY
109349 T A S AAAAGACAAGAGGCAGTAGGATATCTGTGTGTCCTCCCGCTGACCACACTTC
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109349 IS [AG] GTGACCAAGATCACTTCAGTCCTAGGGGACTACAGAAGGAAAAAGACAAGAGGCAGTAGG[AG]TATCTGTGTGTCCTCCCGCTGACCACACTTCCTTTAGTGACCCGATTGCCTCCTCAAGTC
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109350 IS [CT] AGCACTGGGTTCCCTATGAATCCTCAGAGCCAAGAAAAGGAGGAAGGCTCCTGTGTGTCA[CT]GTGAGGTAATGACGTGGTGTCTAATGAAACTGCCCTGCAGTTCCTGCATCATCACTCCTTC
109352 I A CGATACTCCTTTCCTCCCCCGTCTCTTTTGCT
109352 P G A ATGACGTGGCAGACGTTCAGCGTGACCCAY
109352 P A A CGCGCCGAGGATTCAGCGTGACCCAY
109352 T G A AAGATGGGTCACGCTGAAGCAAAAAGAGACGGGGGAGGAAAGGAGTATCGGG
109352 T A A AAGATGCGTCACGCTGAATGCAAAAAGAGACGGGGGAGGAAAGGAGTATCGGG

109352 IS [GA] CAGCCAGGAACTGGCTTTCCCTAGCTCCCCGATACTCCTTTCCTCCCCCGTCTCTTTTGC[GA]TTCAGCGTGACCCATCTTCCAGTCCCTGCGTGTCCTGGCTGTGTCACCTTGCTCTGATGAC
109356 I A CCAGGTGGGGCTCACACTTACTGGTCCT
109356 P G A ATGACGTGGGCAGACGAACTGCTTCCACTTCY
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109356 T G A CAGGGAAGTGGAAGCAGGTTCGGACCAGTAAGTGTGAGCCCCACCTGGGT
109356 T A A CAGGGAAGTGGAAGCAGGTTCGGACCAGTAAGTGTGAGCCCCACCTGGGT

109356 IS [GA] TCCTACACCCAGTCGAGCCTTATCAGCACTGACCCAGGTGGGGCTCACACTTACTGGTCC[GA]AACCTGCTTCCACTTCCCTGCAGGTGGAGTGCGAGCTTGCAGGGTGTACTTAGCGATGGG
109357 I A ACCCCAGGATGTCGGCAACACGGAT
109357 P A A CGCGCCGAGGACTCTGGGGGTACACAY
109357 P G A ATGACGTGGCAGACGCTCTGGGGGTACACY
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109357 IS [AG] CGCCTGGGGTCTTAATGTGGCTCTGGACTGGAAGCCACCCCACGGATGTCGGCAACACGGA[AG]CTCTGGGGGTACACAGTGCAGAAAGCCGACAAGAAGACCATGGTGAGCCCAGGTCTGGG
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109368 P G A ATGACGTGGCAGACGTAGTTCTTACTTCAGCTATCCY
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109368 IS [CG] TGTTACACCGTGAGTGATGAAAGGATCGCACTGCCATGACTTTTAAAACAGGCTTTTGCT[CG]TAGTTCTTACTTCAGCTATCCAGCCATGGCGCCTGTGATTGGCATGAATTCTTCTGCATG
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109369 P C S ATGACGTGGCAGACGAACCACACAGTGATAGAY
109369 P T S CGCGCCGAGGACACCCACAGTGATAGACY
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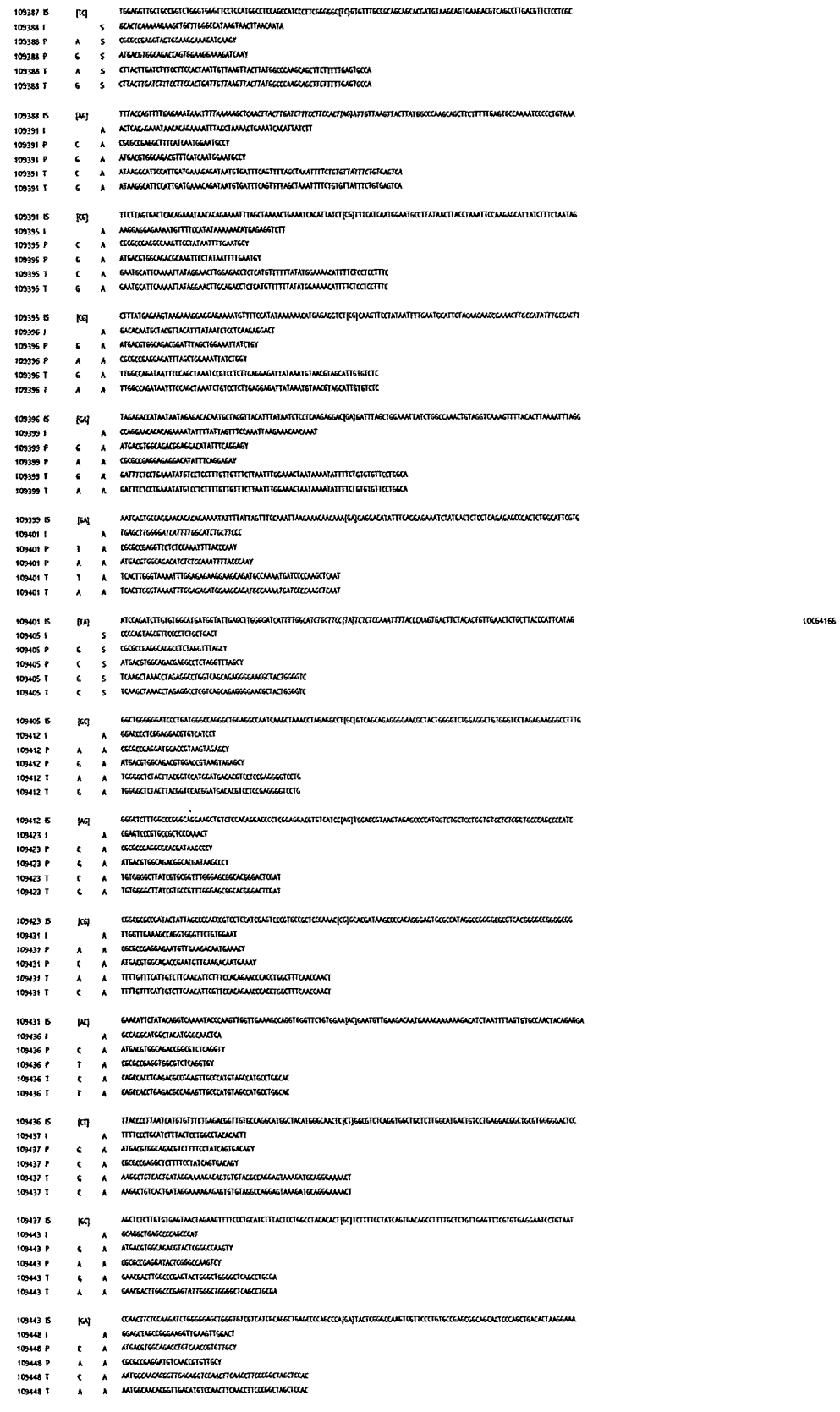
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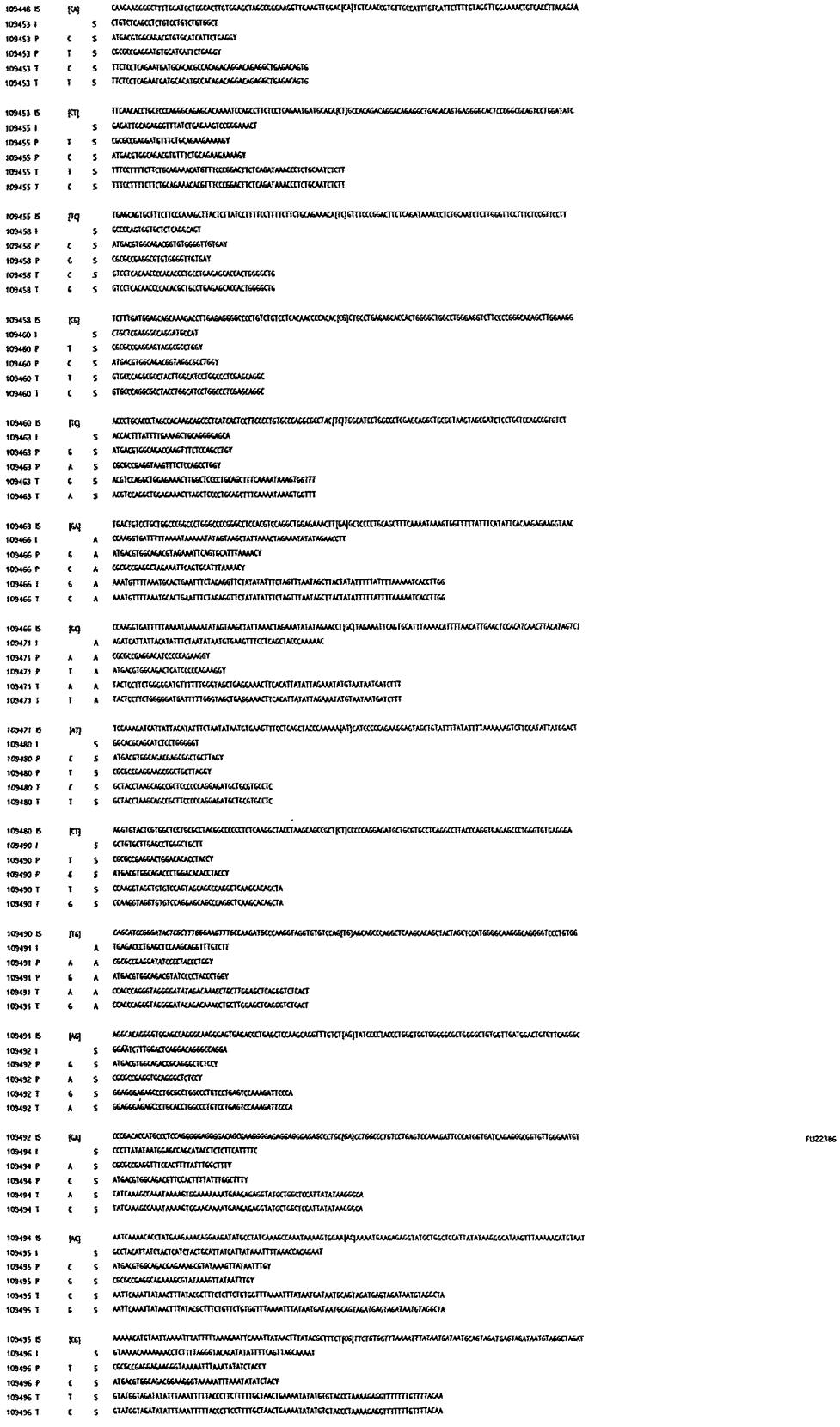
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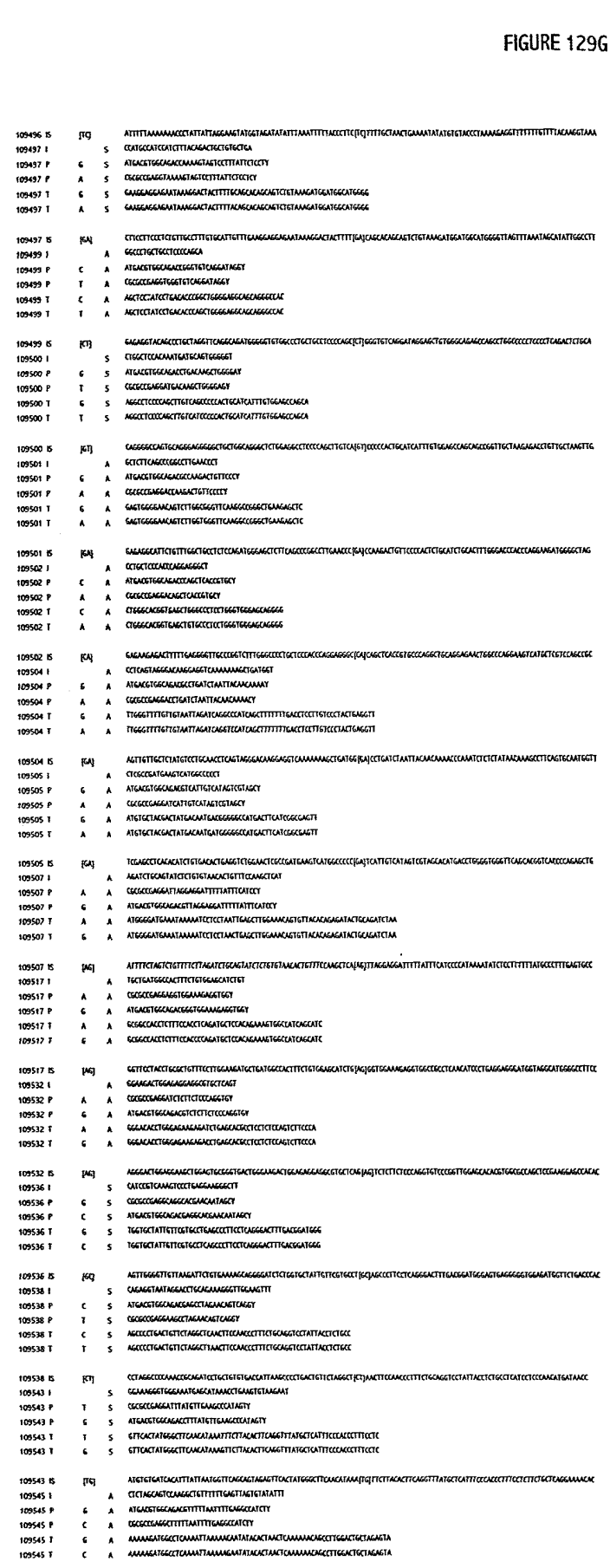
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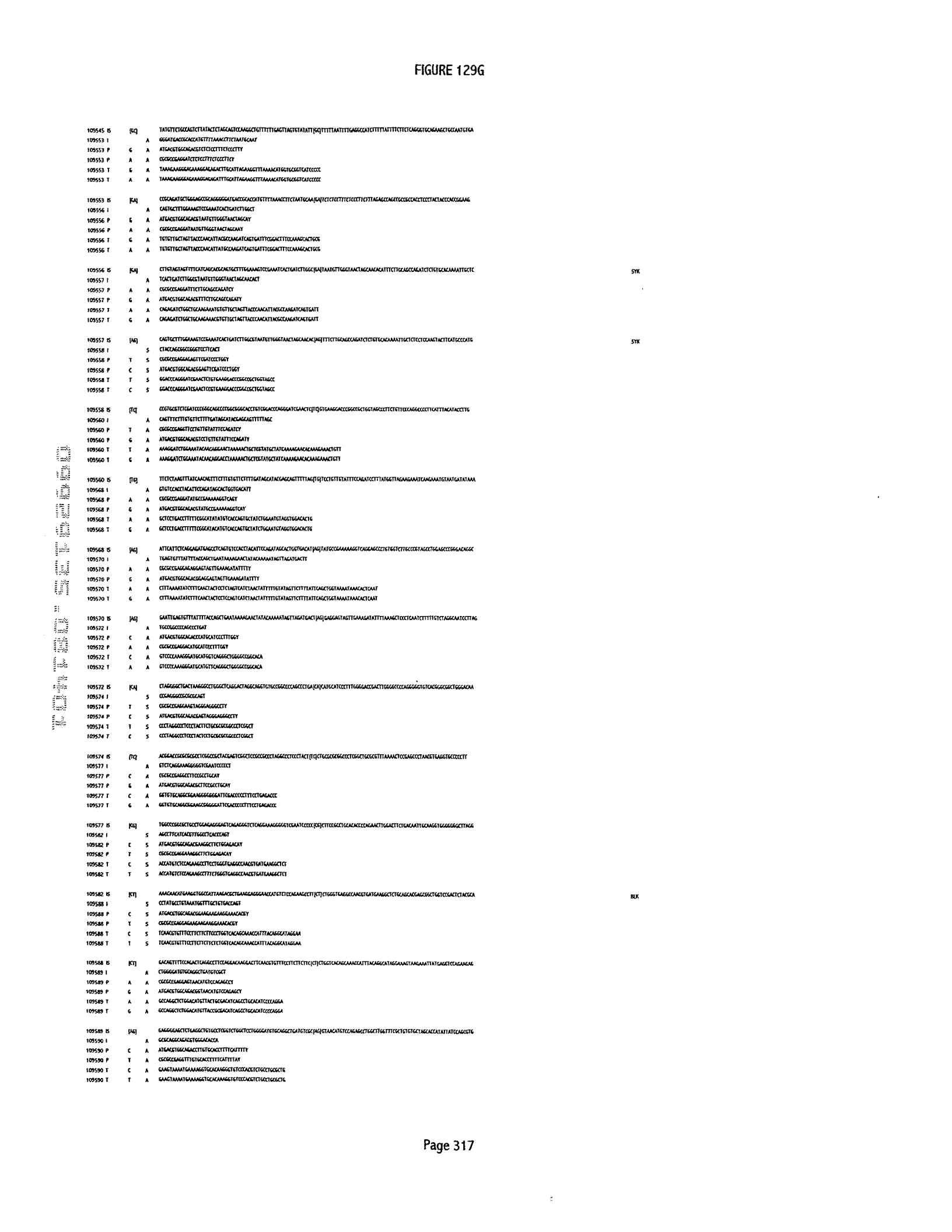
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FIGURE 129G









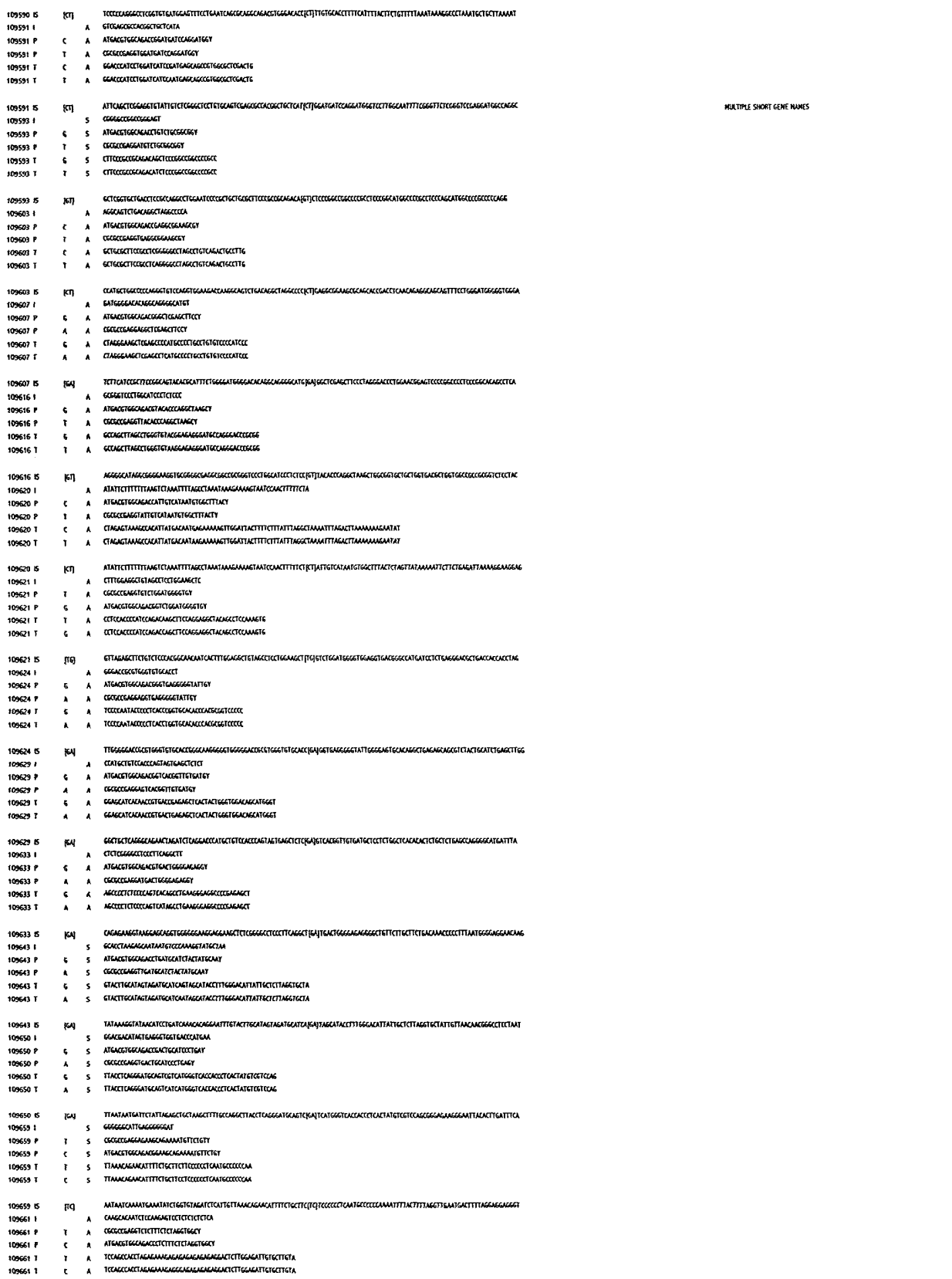
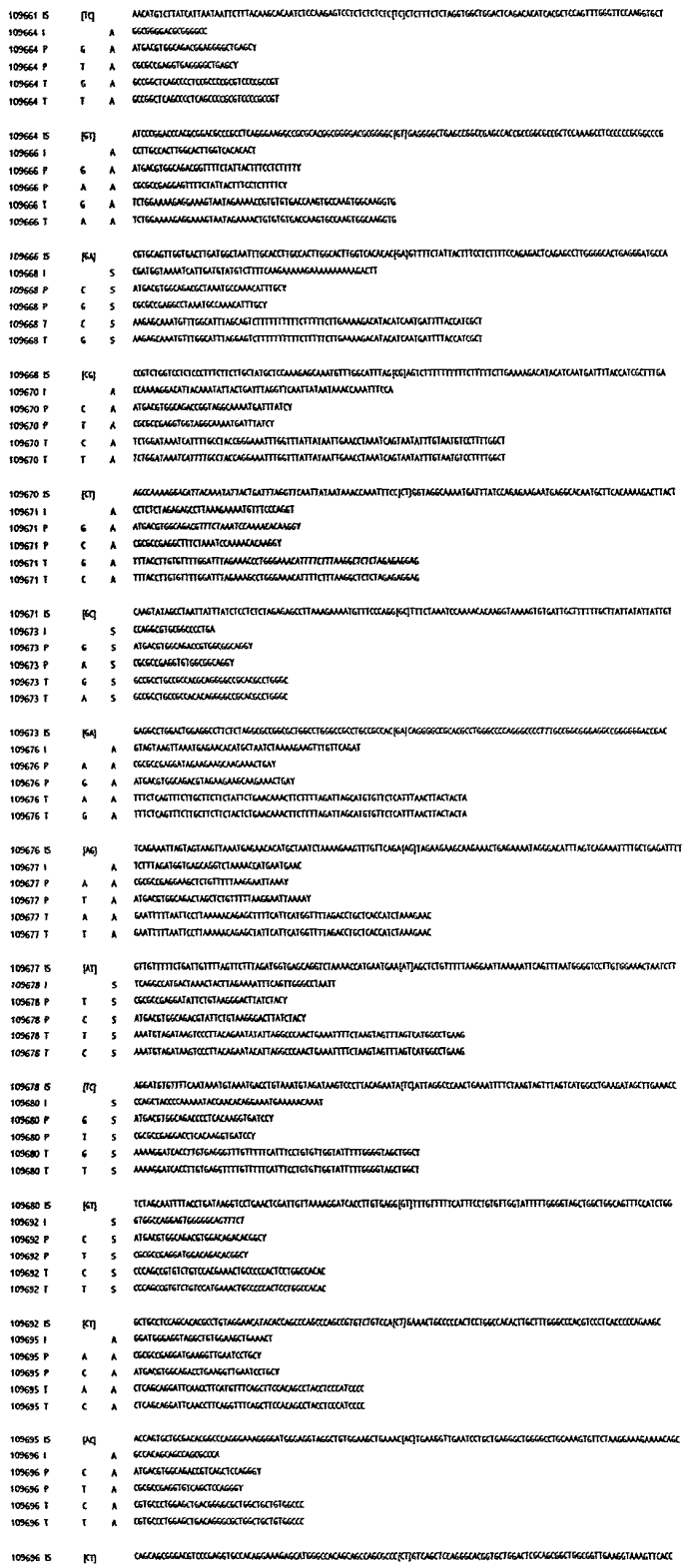

MULTIPLE SHORT GENE NAMES

FIGURE 129G



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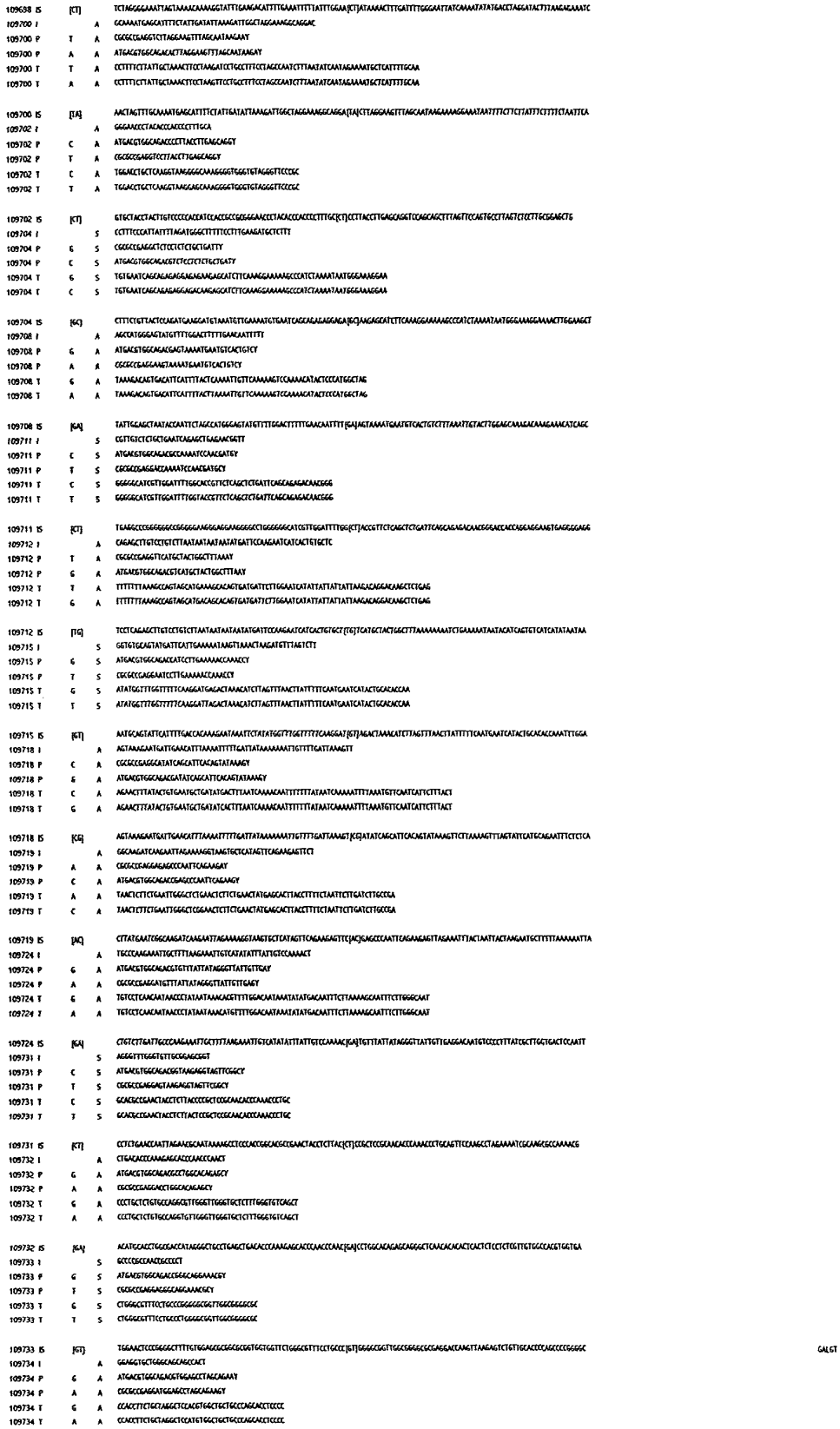
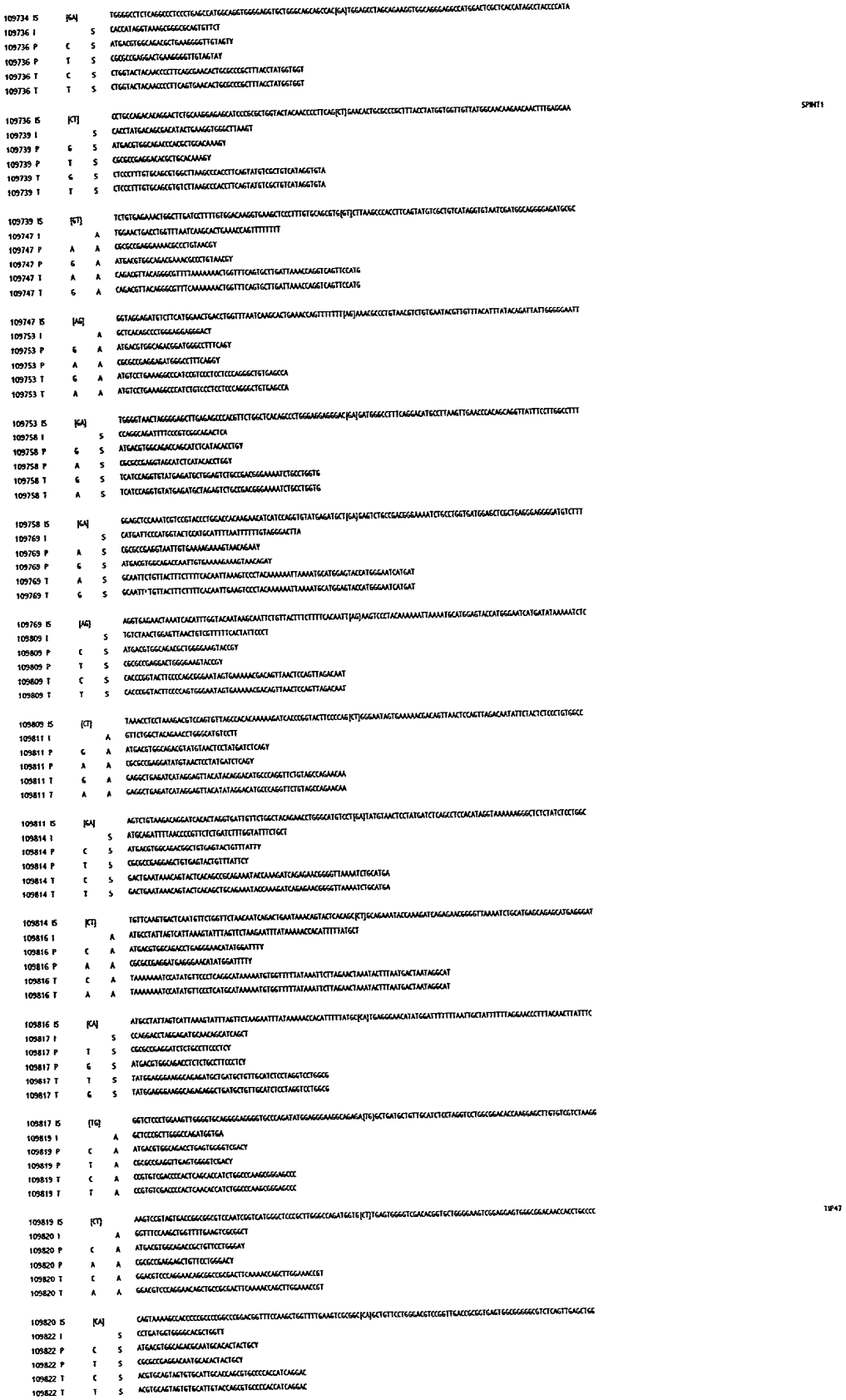
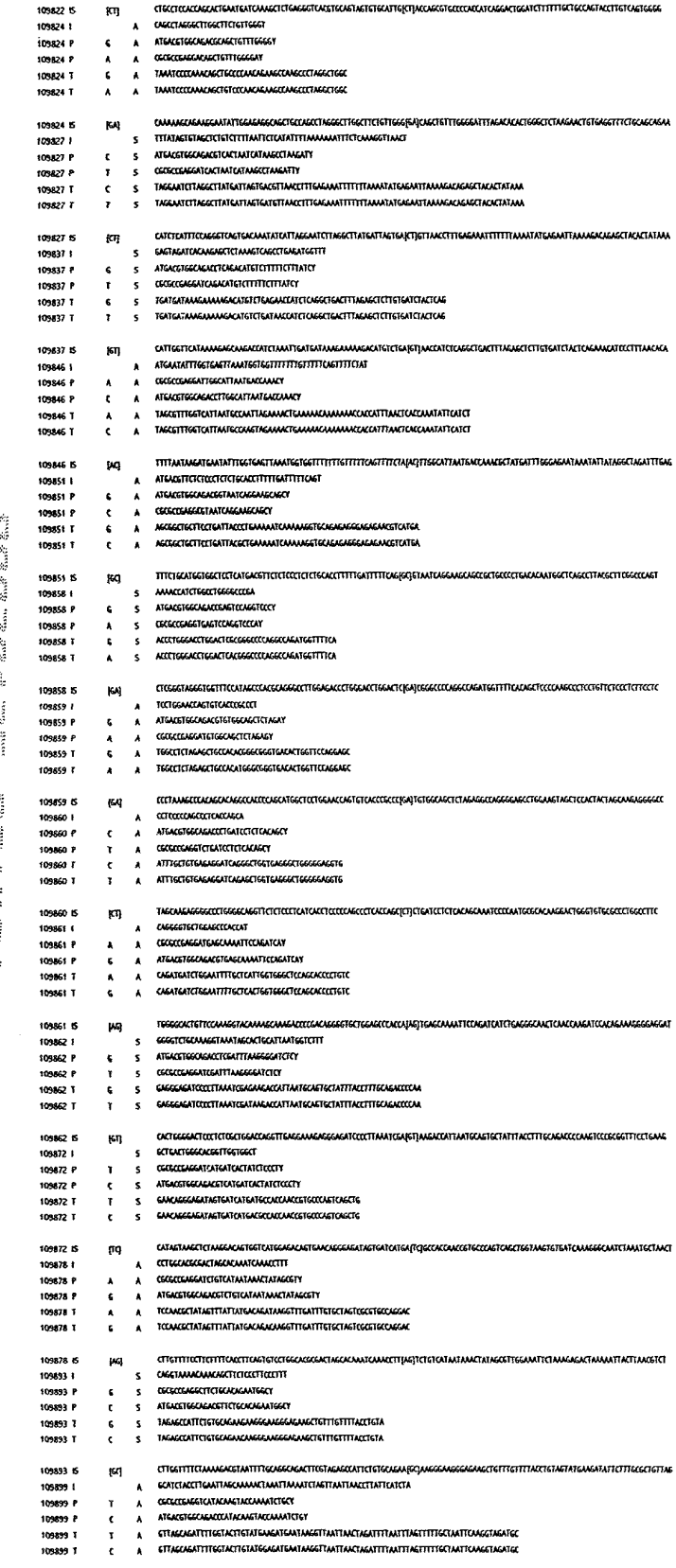
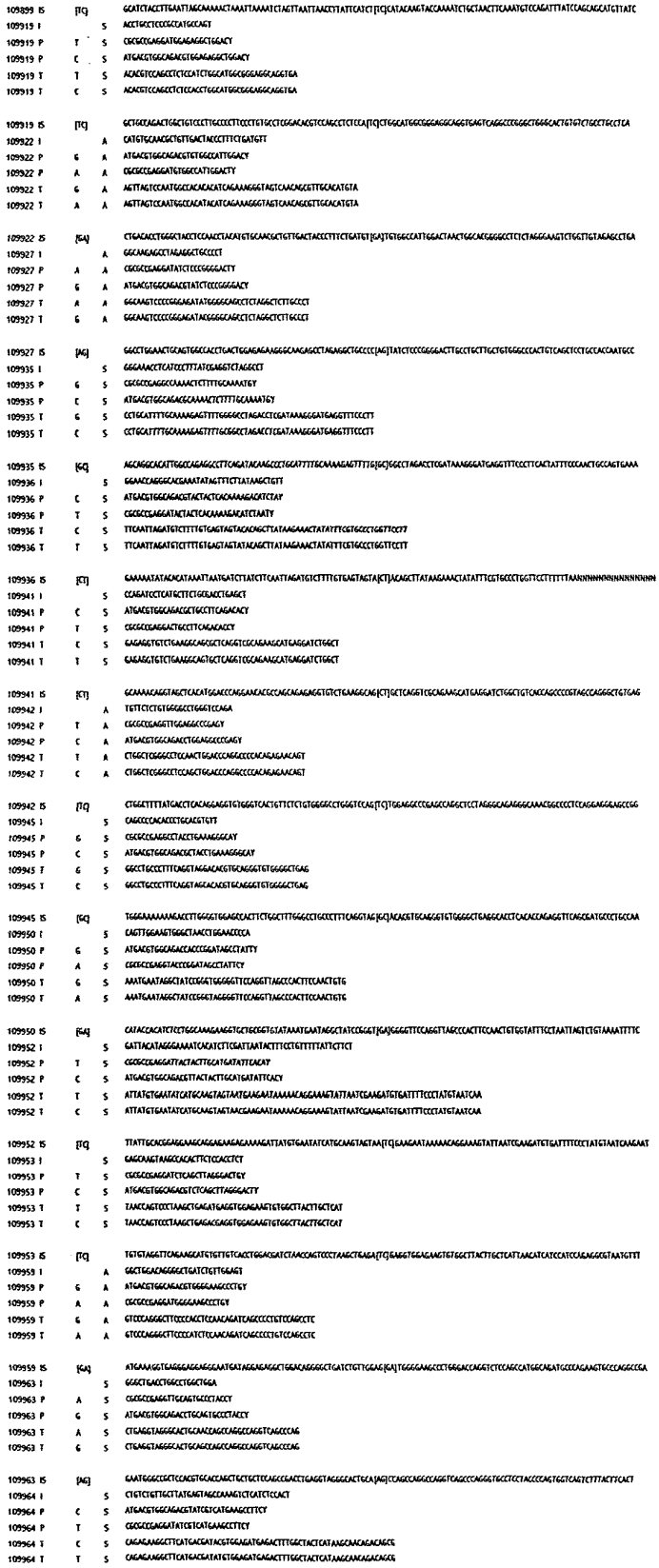


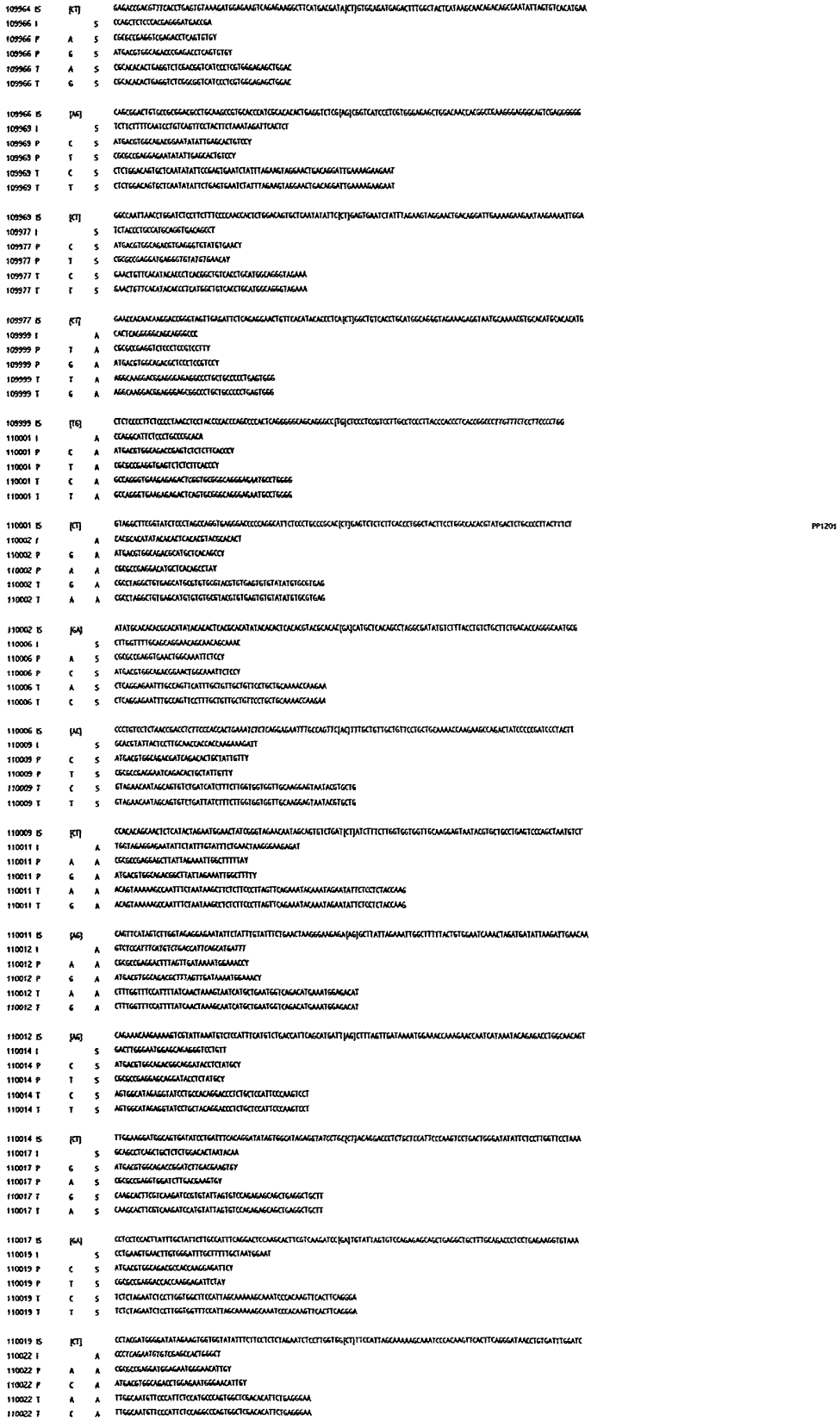
FIGURE 129G





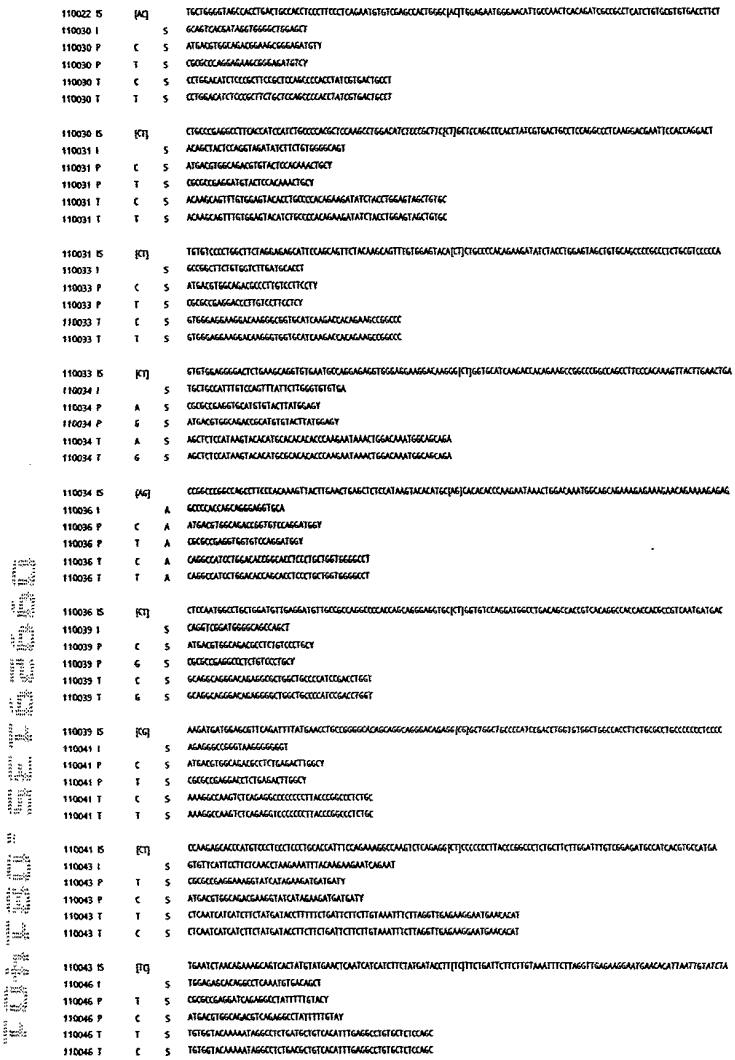
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FIGURE 129G



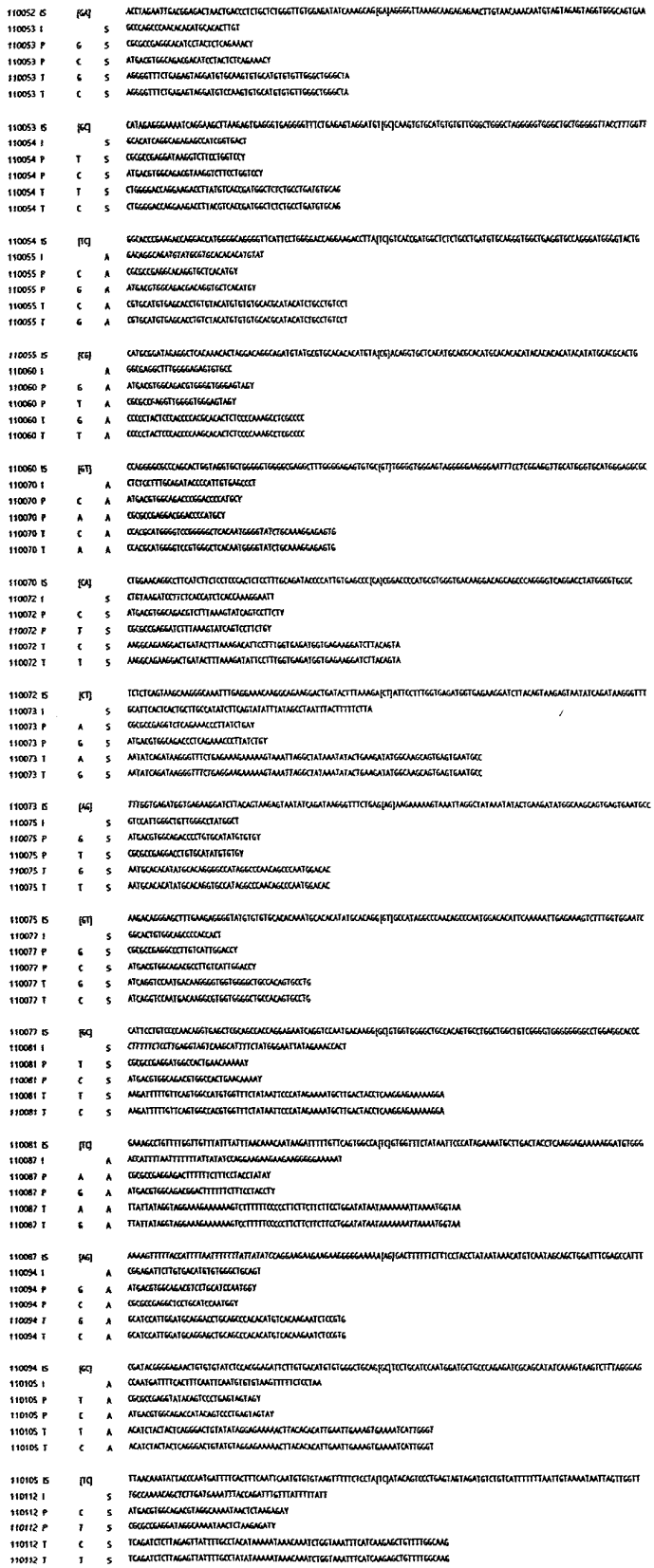
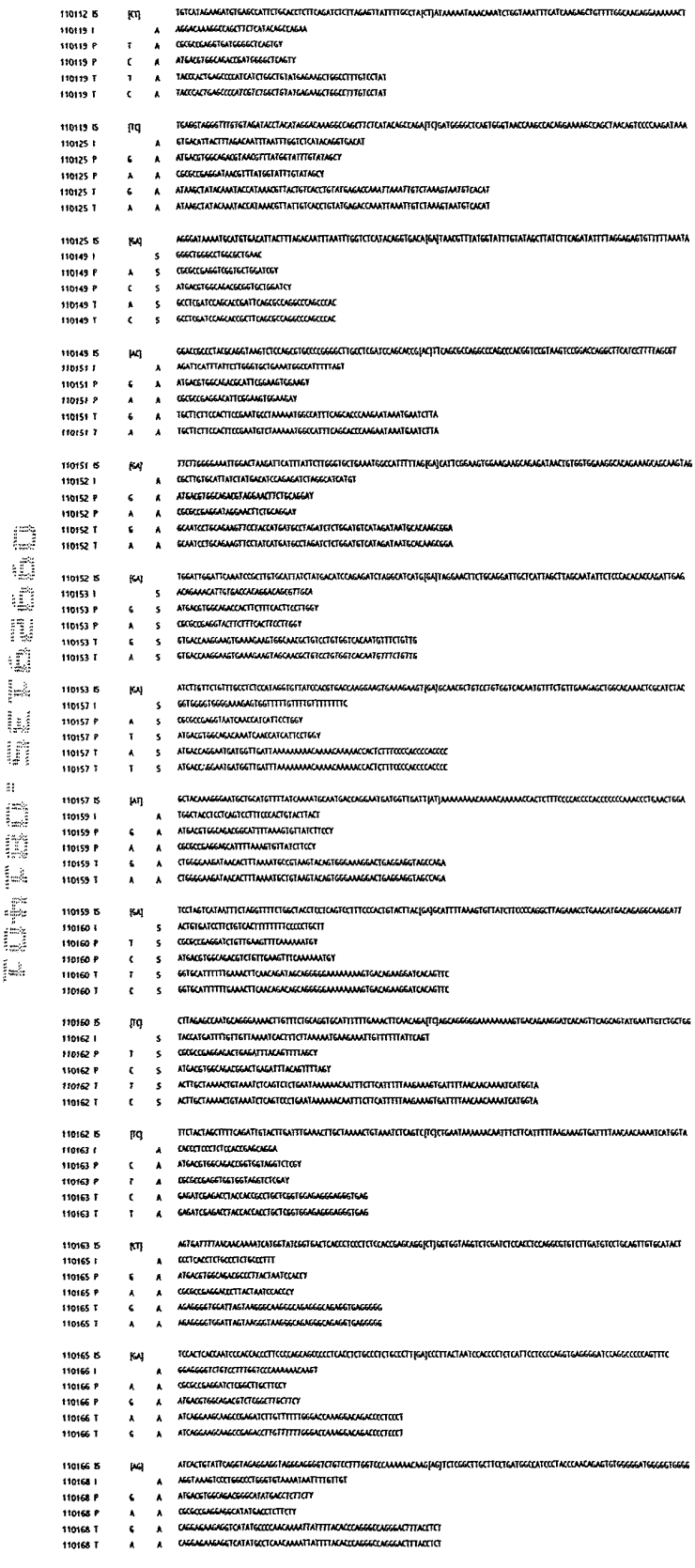
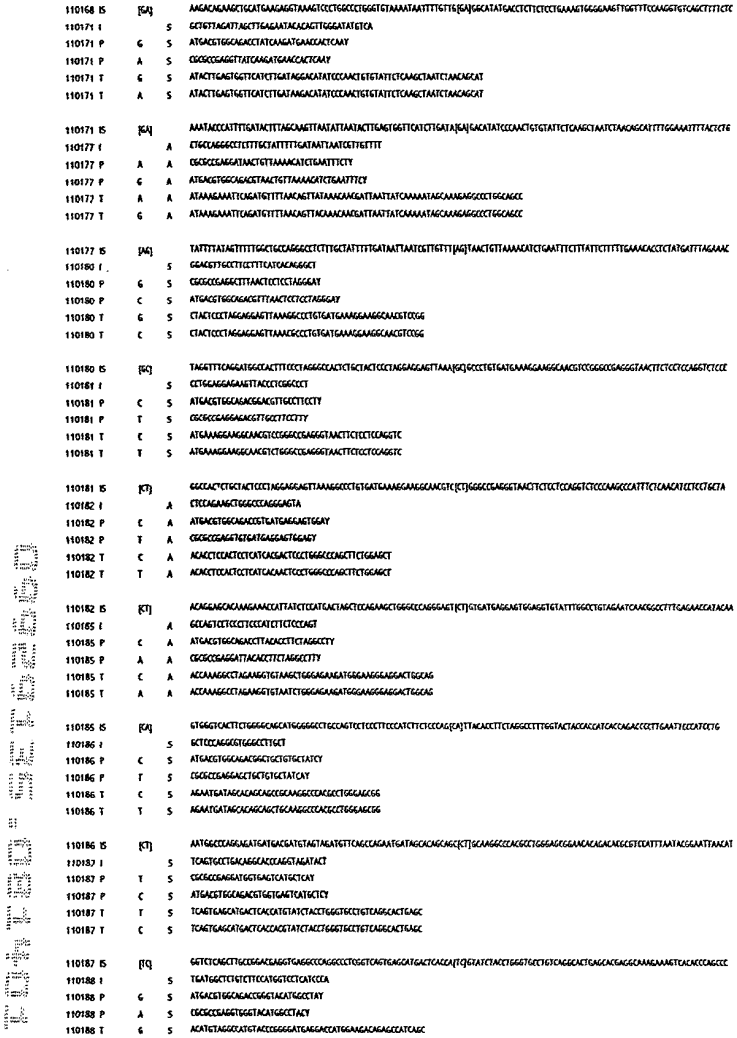
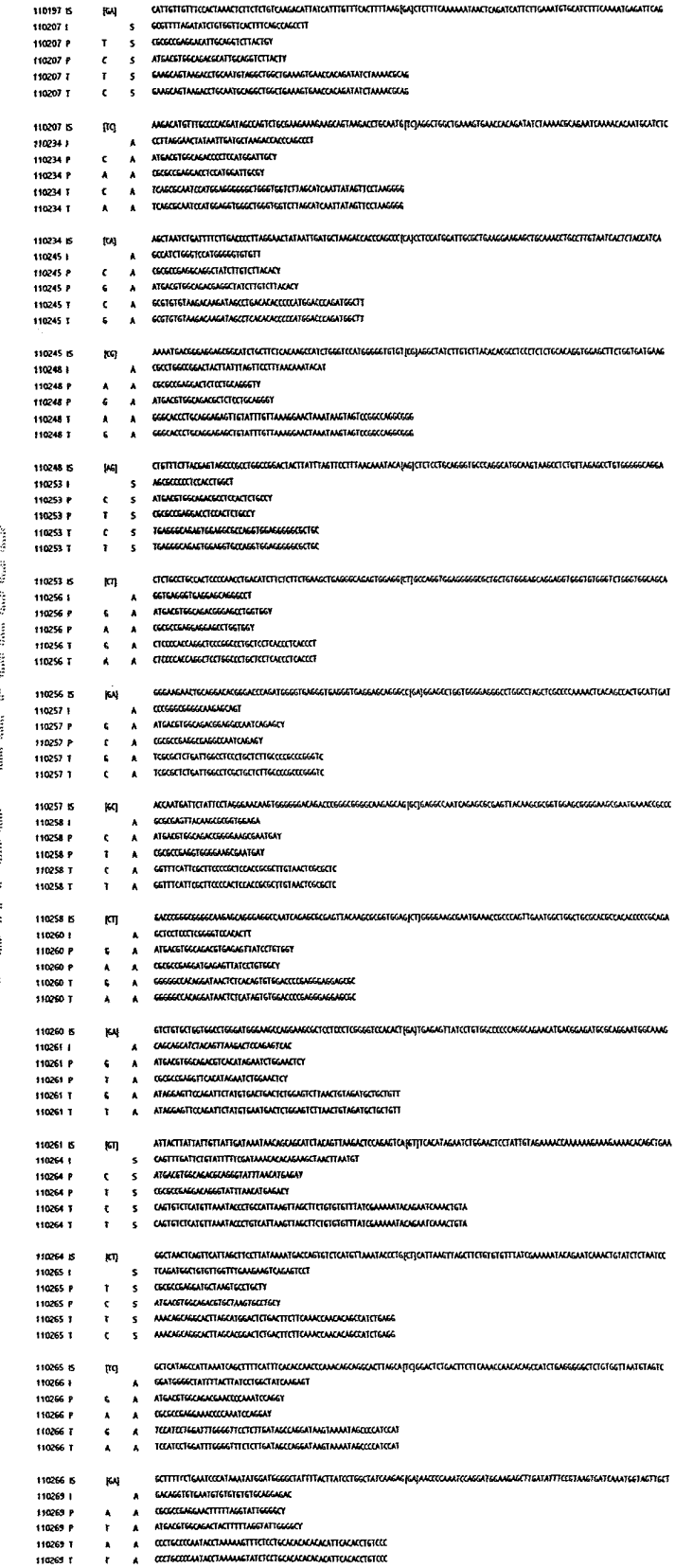


FIGURE 129G







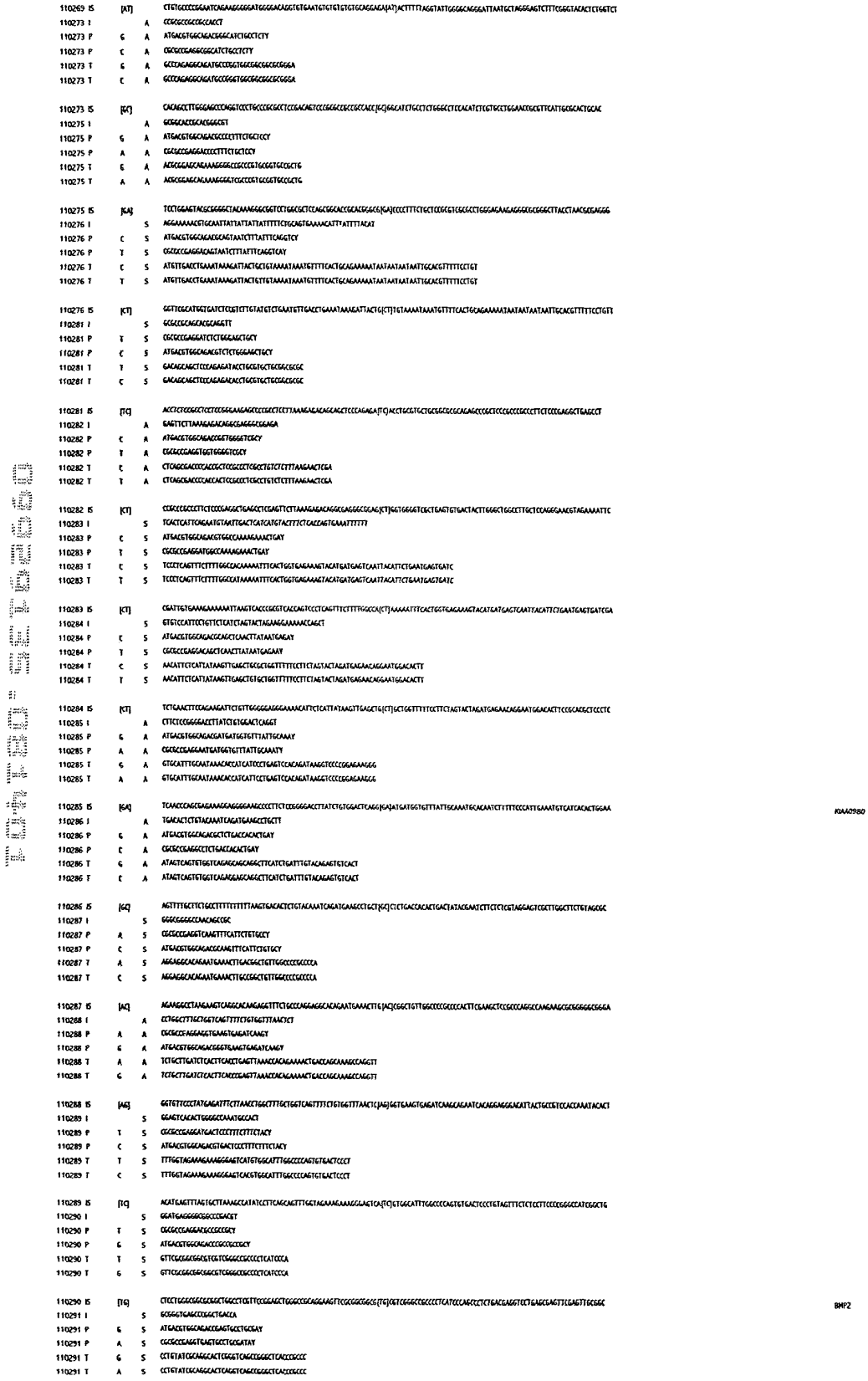
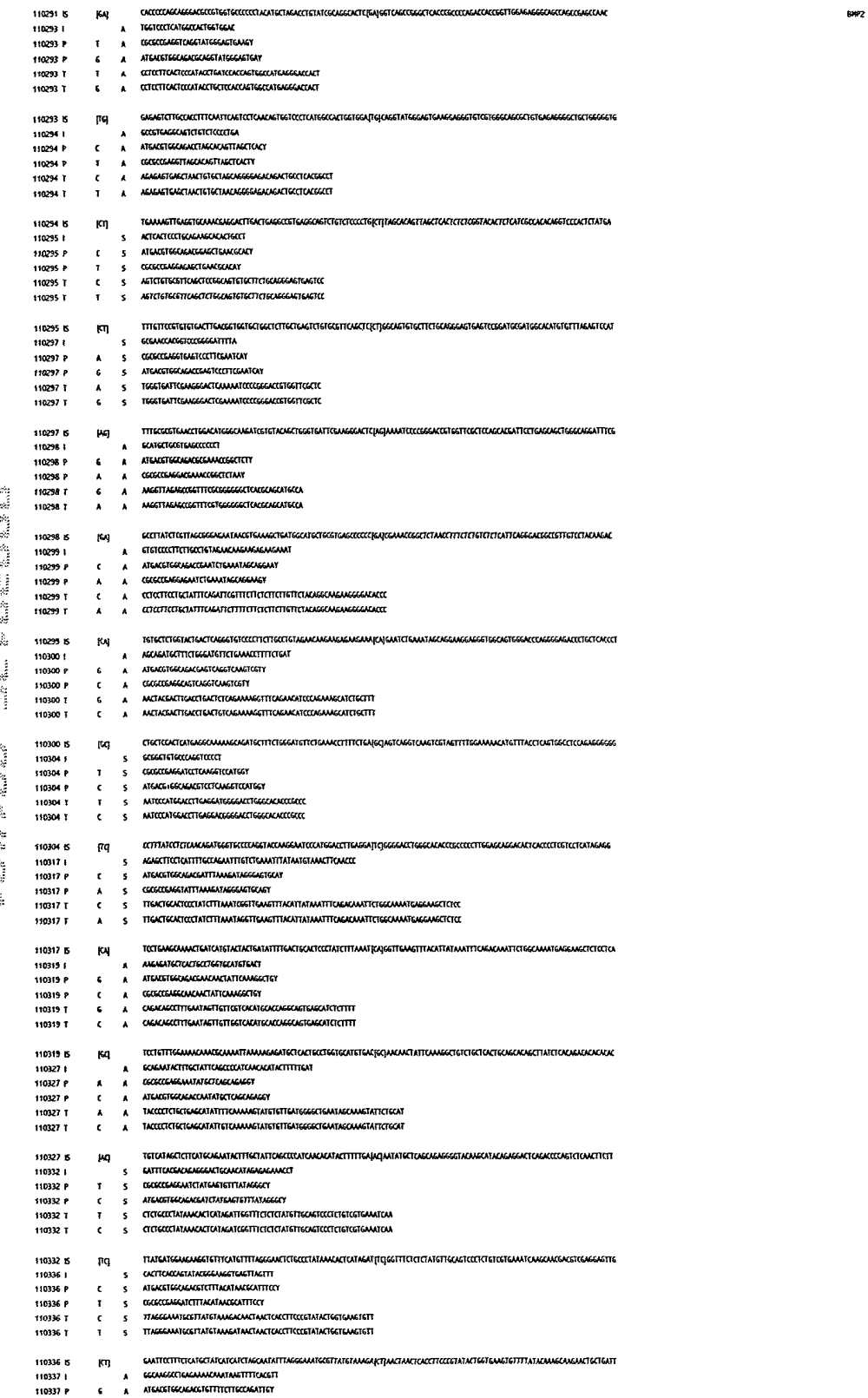


FIGURE 129G



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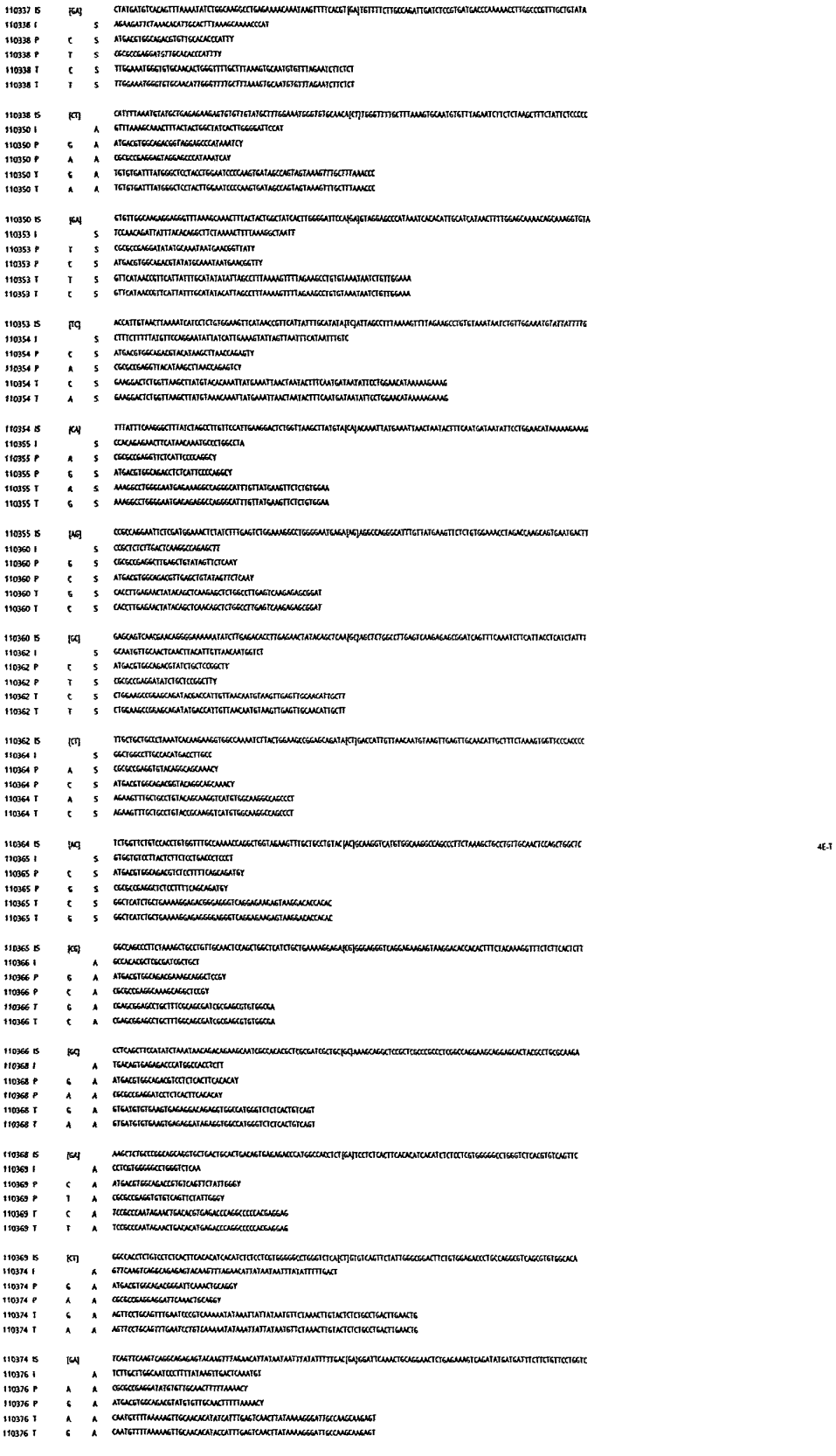
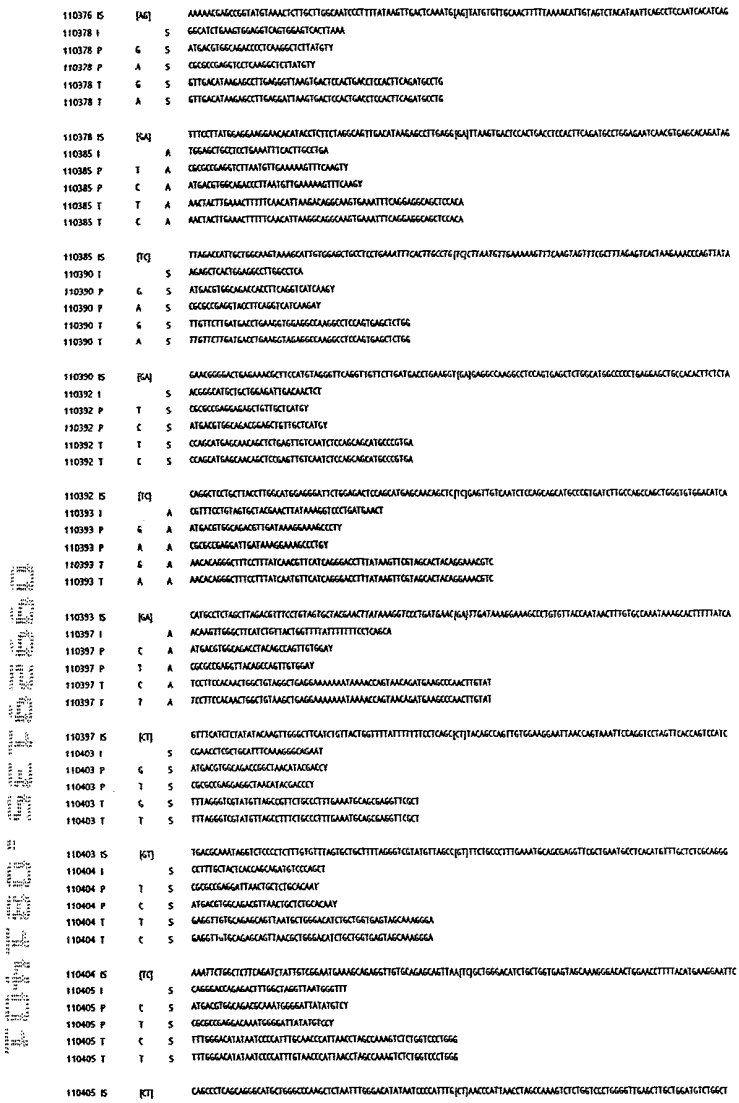
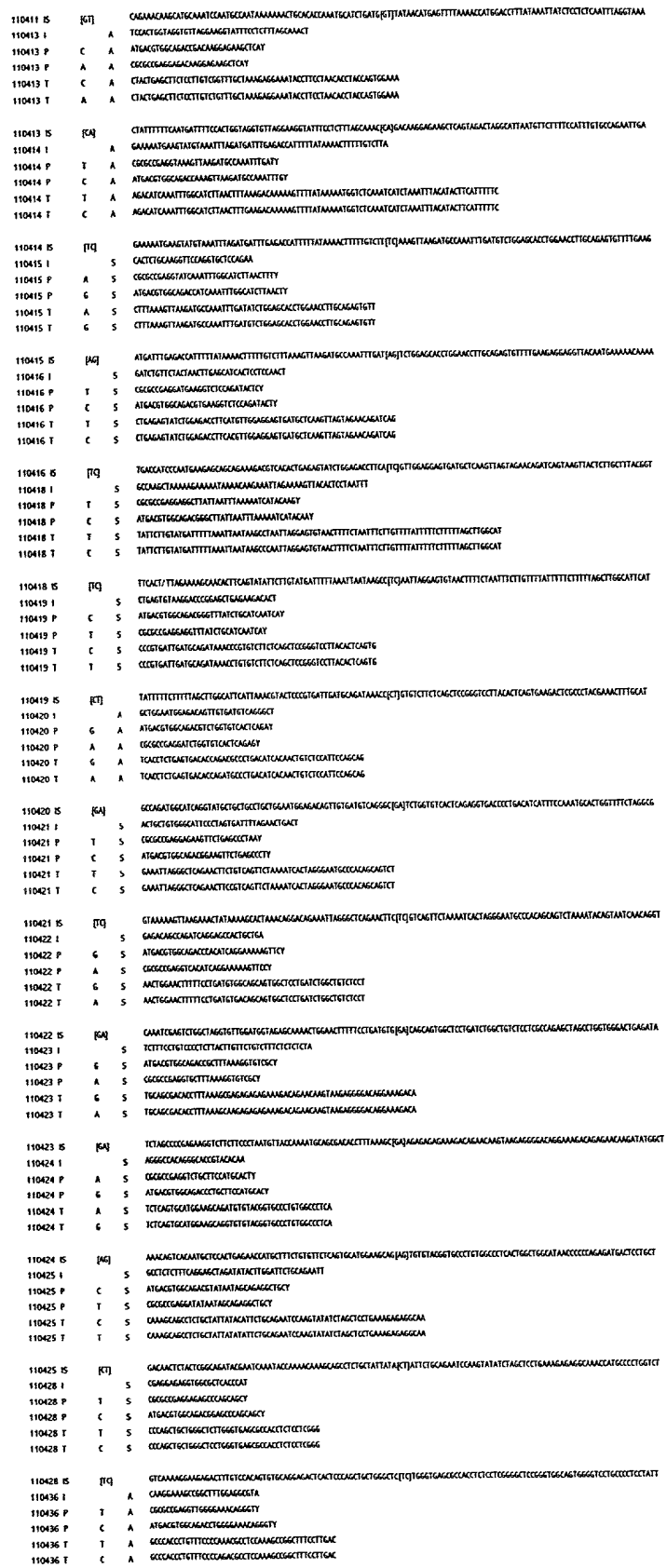


FIGURE 129G





Docket No. 10020.0001.PCUS.00

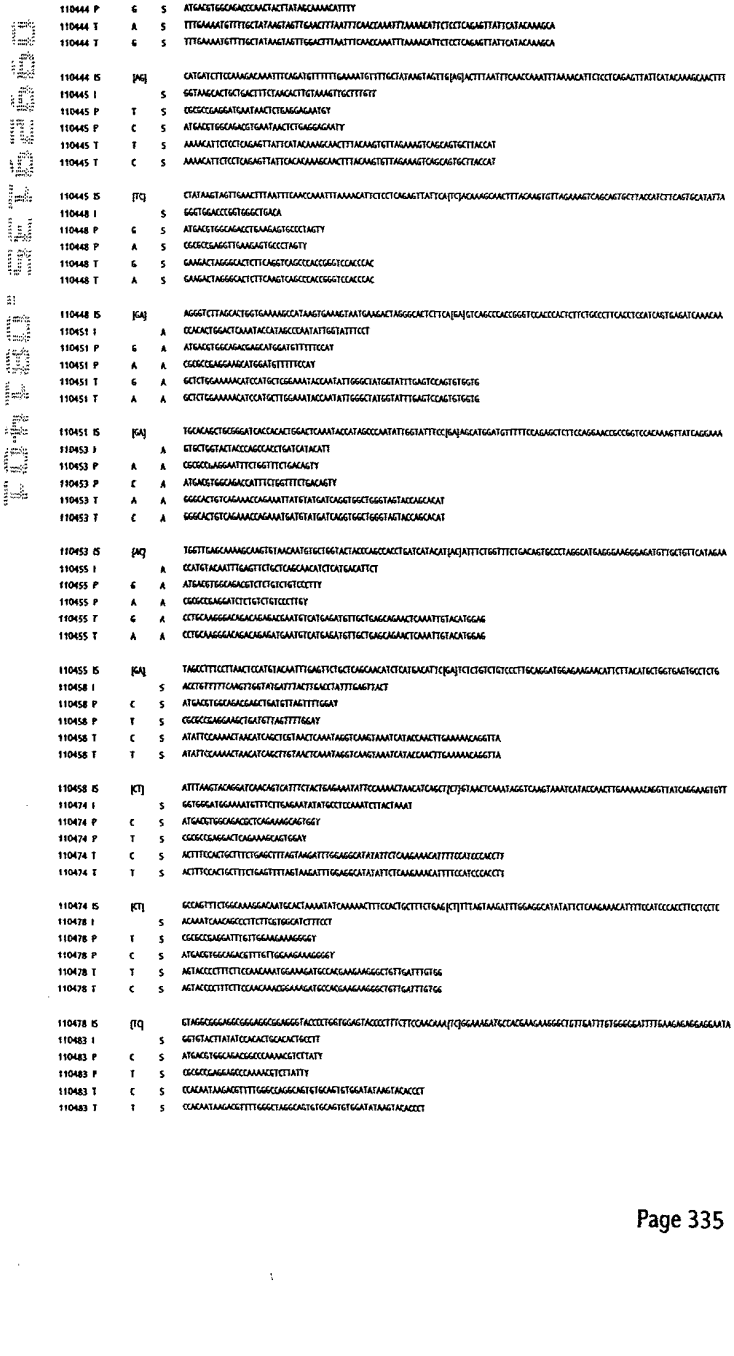
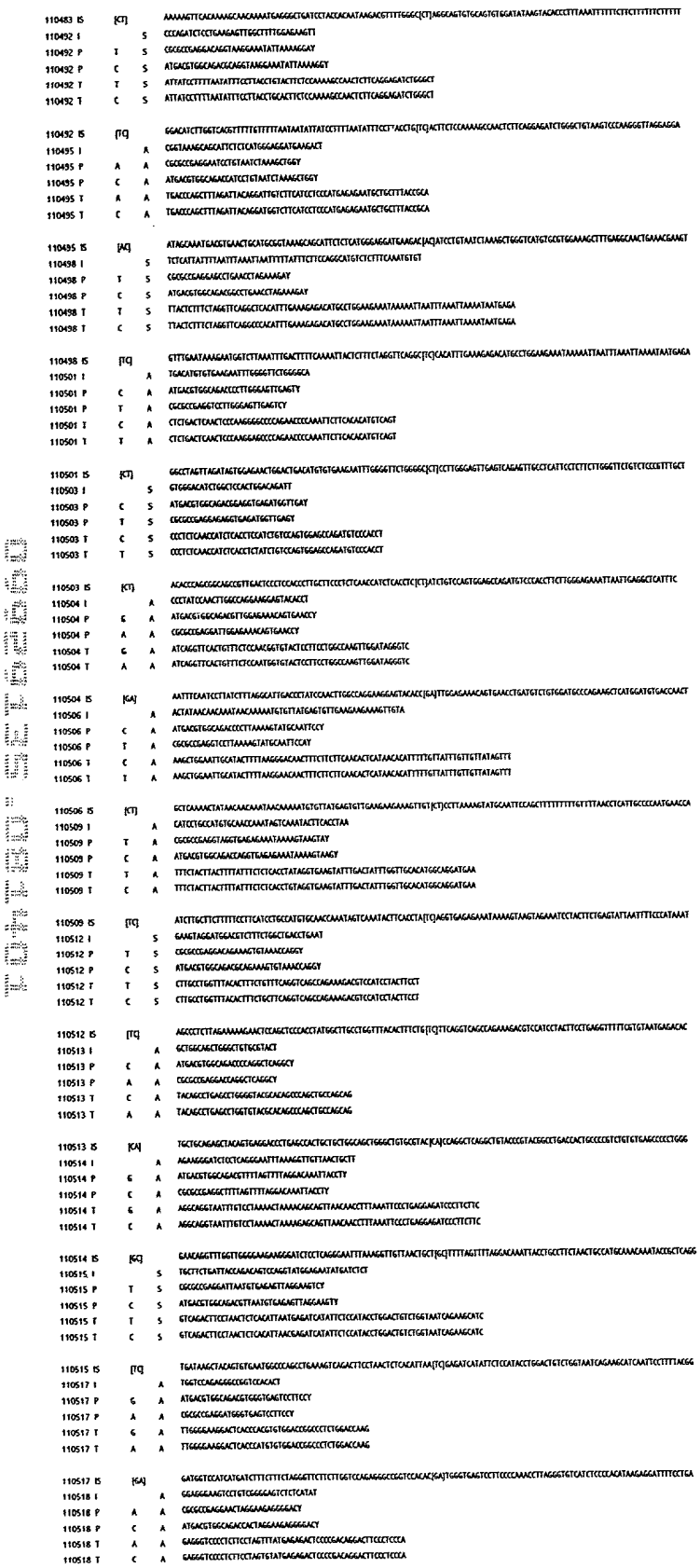
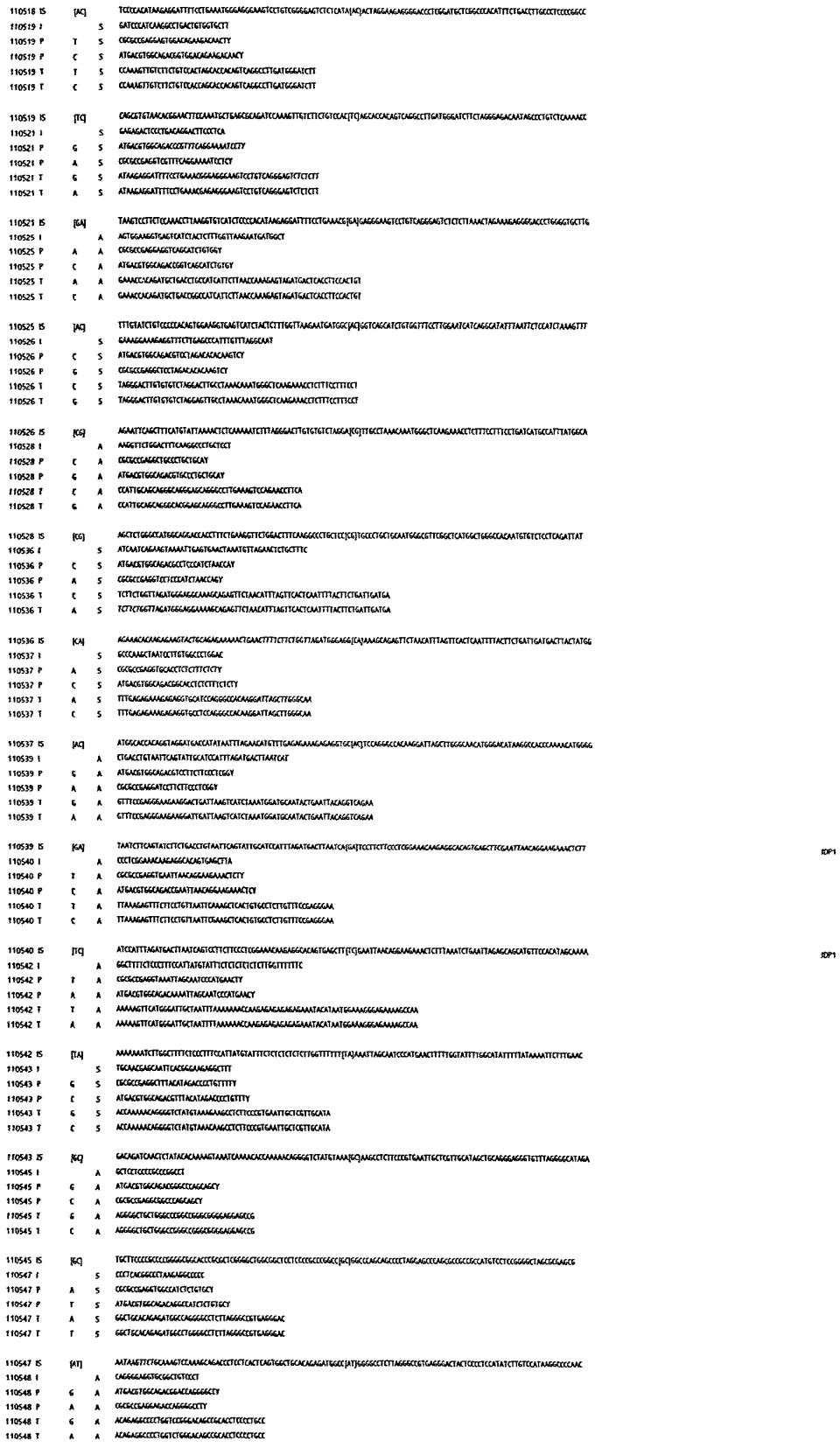
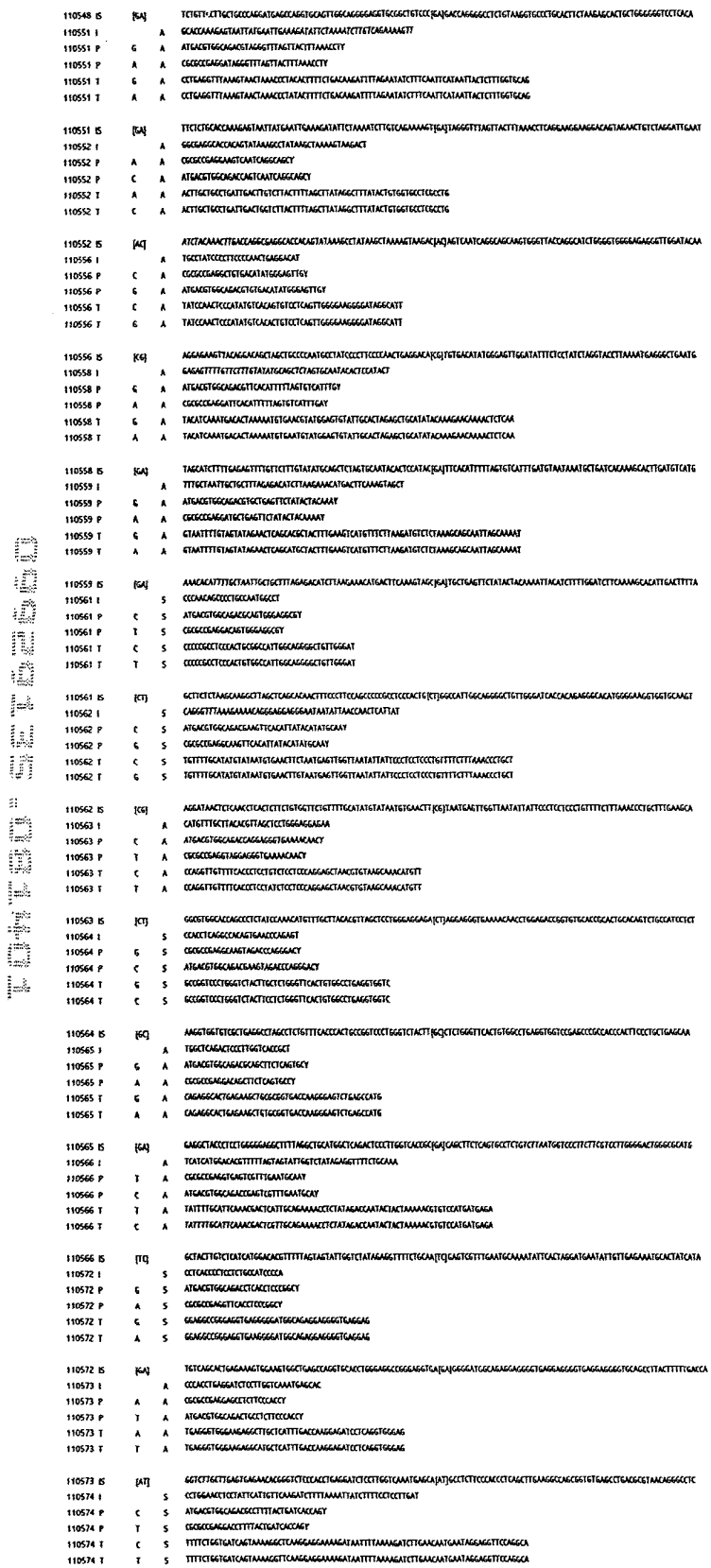


FIGURE 129G


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110492 P C S ATGACGTGGCAGACGCAGGTAAGGAAATATTAAAAGGT
110492 T T S ATTATCCTTTTAATATTTCCTTACCTGTACTTCTCCAAAAGCCAACTCTTCAGGAGATCTGGGCT
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110495 P A A CGCGCCGAGGAATCCTGTAATCTAAAGCTGGY
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110495 T A A TGACCCAGCTTTAGATTACAGGATTGTCTTCATCCTCCCATGAGAGAATGCTGCTTTACCGCA
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110514 T G A AGGCAGGTAATTTGTCCTAAAACTAAAACAGCAGTTAACAACCTTTAAATTCCCTGAGGAGATCCCTTCTTC
110514 T C A AGGCAGGTAATTTGTCCTAAAACTAAAAGAGCAGTTAACAACCTTTAAATTCCCTGAGGAGATCCCTTCTTC
110514 IS [GC] GAACAGGTTTGGTTGGGGAAGAAGGGATCTCCTCAGGCAATTTAAAGGTTGTTAACTGCT[GC]TTTTAGTTTTAGGACAAATTACCTGCTTCTAACTGCCATGCAAACAAATACCGCTCAGG
110515 I S TGCTTCTGATTACCAGACAGTCCAGGTATGGAGAATATGATCTCT
110515 P T S CGCGCCGAGGATTAATGTGAGAGTTAGGAAGTCY
110515 P C S ATGACGTGGCAGACGTTAATGTGAGAGTTAGGAAGTY
110515 T T S GTCAGACTTCCTAACTCTCACATTAATGAGATCATATTCTCCATACCTGGACTGTCTGGTAATCAGAAGCATC
110515 T C S GTCAGACTTCCTAACTCTCACATTAACGAGATCATATTCTCCATACCTGGACTGTCTGGTAATCAGAAGCATC
110515 IS [TC] TGATAAGCTACAGTGTGAATGGCCCAGCCTGAAAGTCAGACTTCCTAACTCTCACATTAA[TC]GAGATCATATTCTCCATACCTGGACTGTCTGGTAATCAGAAGCATCAATTCCTTTTACGG
110517 I A TGGTCCAGAGGGCCGGTCCACACT
110517 P G A ATGACGTGGCAGACGTGGGTGAGTCCTTCCY
110517 P A A CGCGCCGAGGATGGGTGAGTCCTTCCY
110517 T G A TTGGGGAAGGACTCACCCACGTGTGGACCGGCCCTCTGGACCAAG
110517 T A A TTGGGGAAGGACTCACCCATGTGTGGACCGGCCCTCTGGACCAAG
110517 IS [GA] GATGGTCCATCATGATCTTTCTTTCTAGGGTTCTTCTTGGTCCAGAGGGCCGGTCCACAC[GA]TGGGTGAGTCCTTCCCCAACCTTAGGGTGTCATCTCCCCACATAAGAGGATTTTCCTGA
110518 I A GGAGGGAAGTCCTGTCGGGGAGTCTCTCATAT
110518 P A A CGCGCCGAGGAACTAGGAAGAGGGGACY
110518 P C A ATGACGTGGCAGACCACTAGGAAGAGGGGACY
110518 T A A GAGGGTCCCCTCTTCCTAGTTTATGAGAGACTCCCCGACAGGACTTCCCTCCCA
110518 T C A GAGGGTCCCCTCTTCCTAGTGTATGAGAGACTCCCCGACAGGACTTCCCTCCCA





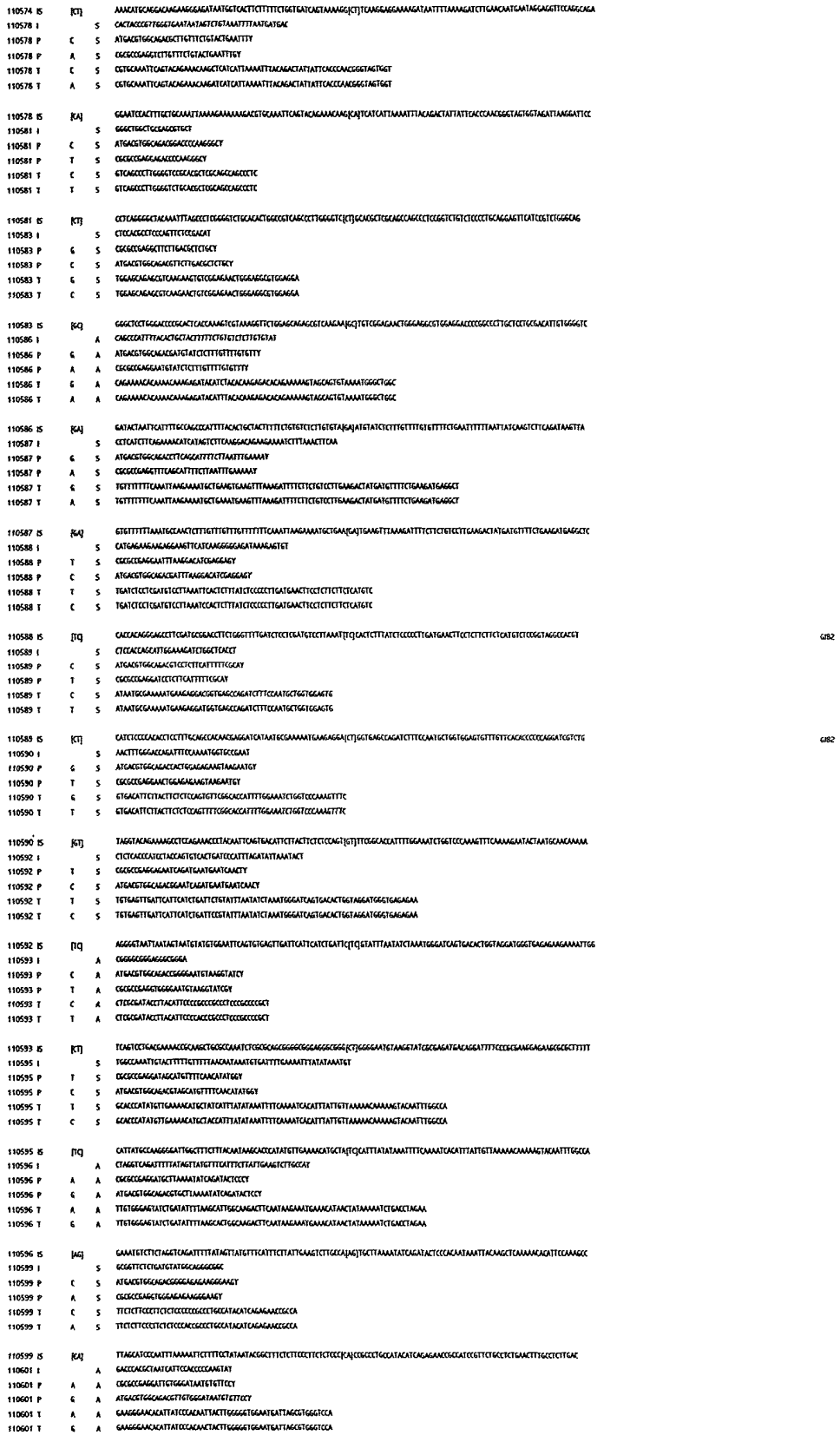
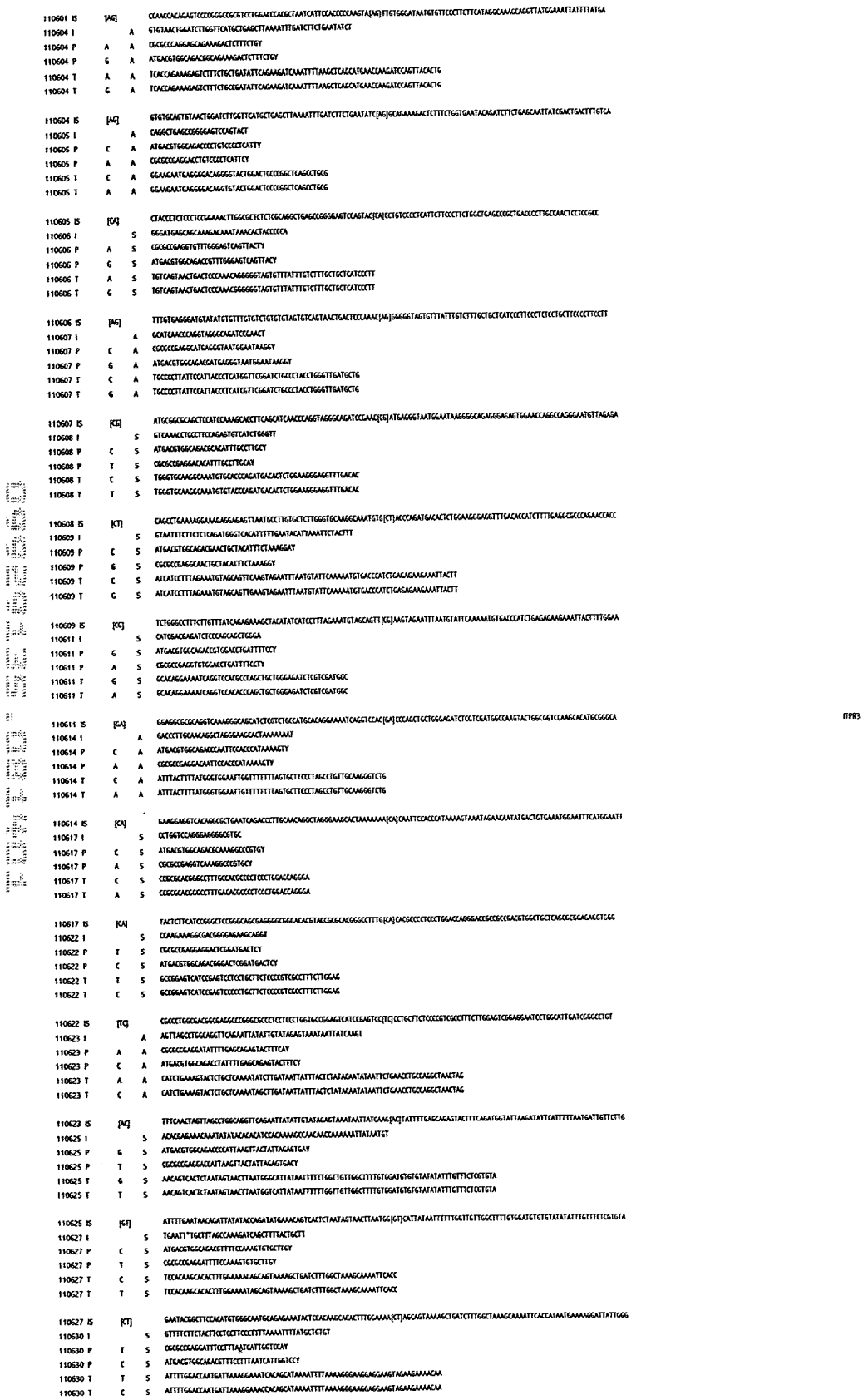


FIGURE 129G



ITP83

FIGURE 129G

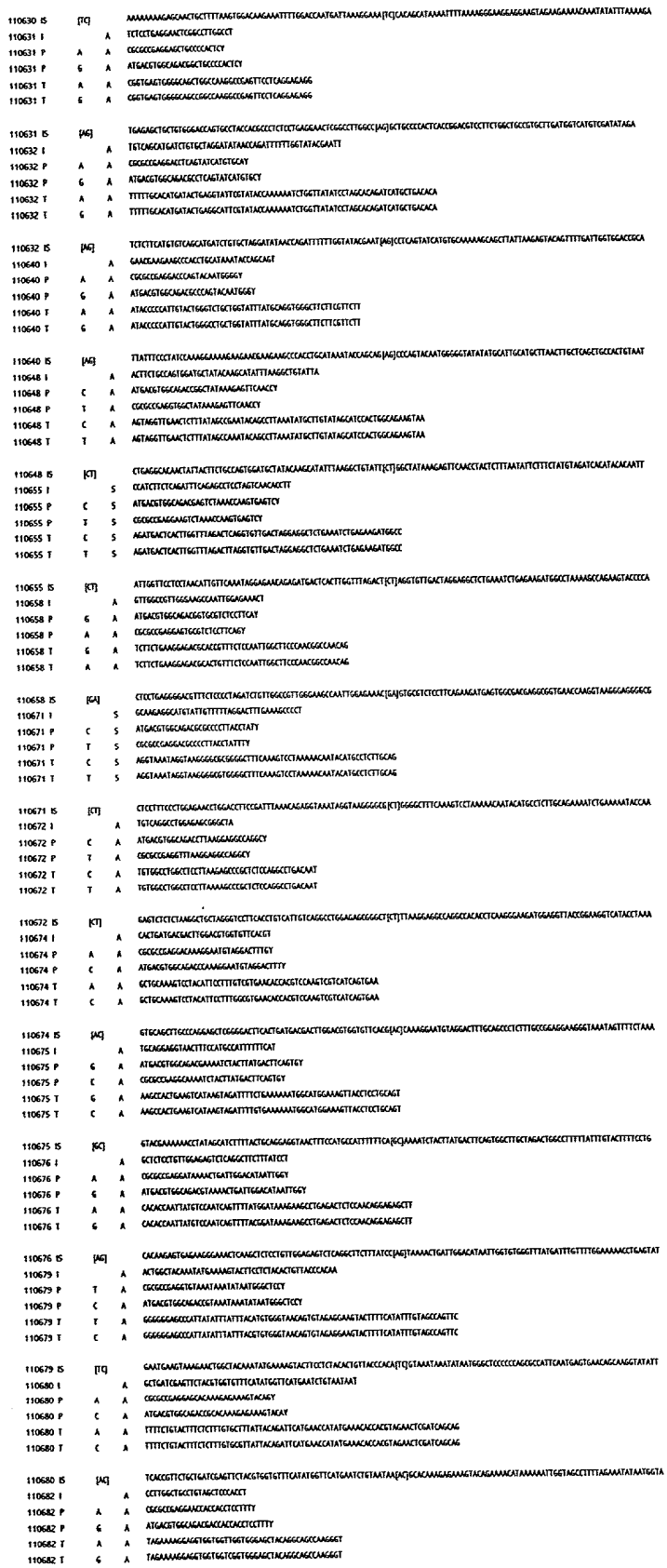


FIGURE 129G

110682 IS	[AG]			CACCCACCTTGGCAGCTCCATCCCTGGACCATCCACCCTTGGCTGCCTGTAGCTCCCACC[AG]ACCACCACCTCCTTTTCTAGCCTATGGCCCAAGCCTCACCTCCAGCTTCTCTCCCTGGAC
110683 I		A		CCTGTGAATTAAGTATATCACTGGTAAAACCCAGCTGCCTGA
110683 P	T	A		CGCGCCGAGGTAGGCCTTCATAGCTTAAGGY
110683 P	C	A		ATGACGTGGCAGACCAGGCCTTCATAGCTTAAGY
110683 T	T	A		TTTGCCTTAAGCTATGAAGGCCTACAGGCAGCTGGGTTTTACCAGTGATATACTTAATTCACAGGGT
110683 T	C	A		TTTGCCTTAAGCTATGAAGGCCTGCAGGCAGCTGGGTTTTACCAGTGATATACTTAATTCACAGGGT

110683 IS	[TC]			TACTATGGTTTGGAGTGACCCTGTGAATTAAGTATATCACTGGTAAAACCCAGCTGCCTG[TC]AGGCCTTCATAGCTTAAGGCAAACCTGCTTTGGAATGTATTAAAAGGATATTTTACCCTG
110686 I		A		CCTGGAGTGGCCCTGCTCCCCTT
110686 P	G	A		ATGACGTGGCAGACGTGTAAACTTTCCCTCCTTY
110686 P	A	A		CGCGCCGAGGATGTAAACTTTCCCTCCTTGY
110686 T	G	A		ACAGCAAGGAGGGAAAGTTTACACAGGGGAGCAGGGCCACTCCAGGTG
110686 T	A	A		ACAGCAAGGAGGGAAAGTTTACATAGGGGAGCAGGGCCACTCCAGGTG

110686 IS	[GA]			CACCATCCGTTGTACAAGCAATGATCAAGAAAGAGGCACCTGGAGTGGCCCTGCTCCCCT[GA]TGTAAACTTTCCCTCCTTGCTGTCCAGTGCTCACATGTCCATATTGCAAATGGATACAAG CR2
110688 I		A		GAGGCTCTCCTACCTGGCTTCTACATAGCGTCA
110688 P	C	A		ATGACGTGGCAGACCAGTAATCAGCAGTATACCTCY
110688 P	T	A		CGCGCCGAGGTAGTAATCAGCAGTATACCTCTAY
110688 T	C	A		CACTTAGAGGTATACTGCTGATTACTGGACGCTATGTAGAAGCCAGGTAGGAGAGCCTCTA
110688 T	T	A		CACTTAGAGGTATACTGCTGATTACTAGACGCTATGTAGAAGCCAGGTAGGAGAGCCTCTA

110688 IS	[CT]			AGACATAAACTCGCAGTACAACACTTTAGAGGCTCTCCTACCTGGCTTCTACATAGCGTC[CT]AGTAATCAGCAGTATACCTCTAAGTGCAATAAAAGTATCCCTTCCCCAGCAGCGGAAAAT
110689 I		S		CAGTATAGGCACATCTCAACCTGTCTGACAATTTTGGCAAT
110689 P	C	S		ATGACGTGGCAGACGAAAGTTATTTGTTGGCATTTGY
110689 P	T	S		CGCGCCGAGGAAAAGTTATTTGTTGGCATTTGY
110689 T	C	S		ATCTCAAATGCCAACAAATAACTTTCTTGCCAAAATTGTCAGACAGGTTGAGATGTGCCTATACTGCG
110689 T	T	S		ATCTCAAATGCCAACAAATAACTTTTTTGCCAAAATTGTCAGACAGGTTGAGATGTGCCTATACTGCG

110689 IS	[CT]			CTATTTGAATAATGAACTCCTTGCCACACACGATAATCTCAAATGCCAACAAATAACTTT[CT]TTGCCAAAATTGTCAGACAGGTTGAGATGTGCCTATACTGCGTTTGAAGTCCCGAGAAAT
110691 I		S		GAGTTCCTGAGATCAAGAAGGGTTAAAAGTTAATGTTATTTTGCT
110691 P	G	S		CGCGCCGAGGCCATATATACTGGTCTTAGGCY
110691 P	C	S		ATGACGTGGCAGACGCATATATACTGGTCTTAGGCY
110691 T	G	S		TAAAGCCTAAGACCAGTATATATGGGCAAAATAACATTAACTTTTAACCCTTCTTGATCTCAGGAACTCAA
110691 T	C	S		TAAAGCCTAAGACCAGTATATATGCGCAAAATAACATTAACTTTTAACCCTTCTTGATCTCAGGAACTCAA

110691 IS	[GC]			GAATTTTTTTTAAGTAGAATATTTTTAGGGCAGAAATAAAGCCTAAGACCAGTATATATG[GC]GCAAAATAACATTAACTTTTAACCCTTCTTGATCTCAGGAACTCAAAAGTTCATTTAAAA
110694 I		S		CCTCTTCTTCCAGCTCAAGCTGTGGATGGAGT
110694 P	C	S		ATGACGTGGCAGACGCTTCATGGGTAACTTGGY
110694 P	G	S		CGCGCCGAGGCCTTCATGGGTAACTTGGY
110694 T	C	S		TTTCCCAAGTTACCCATGAAGCGTCCATCCACAGCTTGAGCTGGAAGAAGAGGGA
110694 T	G	S		TTTCCCAAGTTACCCATGAAGGCTCCATCCACAGCTTGAGCTGGAAGAAGAGGGA

110694 IS	[CG]			ACCTGCAGCCTCTATTCTCACCTTAGGTCTCCCTCCTCCTTTCCCAAGTTACCCATGAAG[CG]CTCCATCCACAGCTTGAGCTGGAAGAAGAGGGACACAGAGCGATATTATACTGTACCCCA
110696 I		S		GGGAGTGTTCTCAAACTGGGAAAGGGGGAAT
110696 P	C	S		ATGACGTGGCAGACGTCTGTCTGTGCCTTTTY
110696 P	T	S		CGCGCCGAGGATCTGTCTGTGCCTTTTGY
110696 T	C	S		CTTCCAAAAGGCACAGACAGACTTCCCCCTTTCCCAGTTTGAGAACACTCCCCT
110696 T	T	S		CTTCCAAAAGGCACAGACAGATTTCCCCCTTTCCCAGTTTGAGAACACTCCCCT

110696 IS	[CT]			GTAAGGTGGAGACCTCCCTAACCTTCCGCTCAAAACTATCTTCCAAAAGGCACAGACAGA[CT]TTCCCCCTTTCCCAGTTTGAGAACACTCCCCTTCCTCCTCCATGCCCATATCTCACCATT
110697 I		A		GGACCCCCTTTGTAACAGCCACTAGAAAAGCCATAAA
110697 P	C	A		ATGACGTGGCAGACCCTACAACGCAAGAGCY
110697 P	T	A		CGCGCCGAGGTCTACAACGCAAGAGCAY
110697 T	C	A		AAAATGCTCTTGCGTTGTAGGTTATGGCTTTTCTAGTGGCTGTTACAAAGGGGGTCCCT
110697 T	T	A		AAAATGCTCTTGCGTTGTAGATTATGGCTTTTCTAGTGGCTGTTACAAAGGGGGTCCCT

110697 IS	[CT]			AGAGCTGATGTGGCTCAGTTGGAGGGACCCCCTTTGTAACAGCCACTAGAAAAGCCATAA[CT]CTACAACGCAAGAGCATTTTCTCTTTAAGTCACAGCGATGGCTGTAGGGAGTCAGGTGCA
110701 I		A		GCCAAGAACACAGCTACCGCACACCACT
110701 P	C	A		CGCGCCGAGGCCTGAAACAGCCACAGY
110701 P	G	A		ATGACGTGGCAGACGCTGAAACAGCCACAGY
110701 T	C	A		TTGGCTGTGGCTGTTTCAGGGTGGTGTGCGGTAGCTGTGTTCTTGGCAT
110701 T	G	A		TTGGCTGTGGCTGTTTCAGCGTGGTGTGCGGTAGCTGTGTTCTTGGCAT

110701 IS	[CG]			CCTGATGGCCCATCCCAGCCCCTGAAGCTCTATGCCAAGAACACAGCTACCGCACACCAC[CG]CTGAAACAGCCACAGCCAAGGTAGGCATGCATATGAGGTCTTCCCCATACCCTCTGGGTG
110703 I		S		ACCAAATTTTGCCACAACAATGTCAAACAAAAAGGAAAATT
110703 P	C	S		ATGACGTGGCAGACGTCAAGTGGTAACAATAATTTGTY
110703 P	T	S		CGCGCCGAGGATCAAGTGGTAACAATAATTTGTTY
110703 T	C	S		ATGCAACAAATTATTGTTACCACTTGACATTTTCCTTTTTGTTTGACATTGTTGTGGCAAAATTTGGTGA
110703 T	T	S		ATGCAACAAATTATTGTTACCACTTGATATTTTCCTTTTTGTTTGACATTGTTGTGGCAAAATTTGGTGA

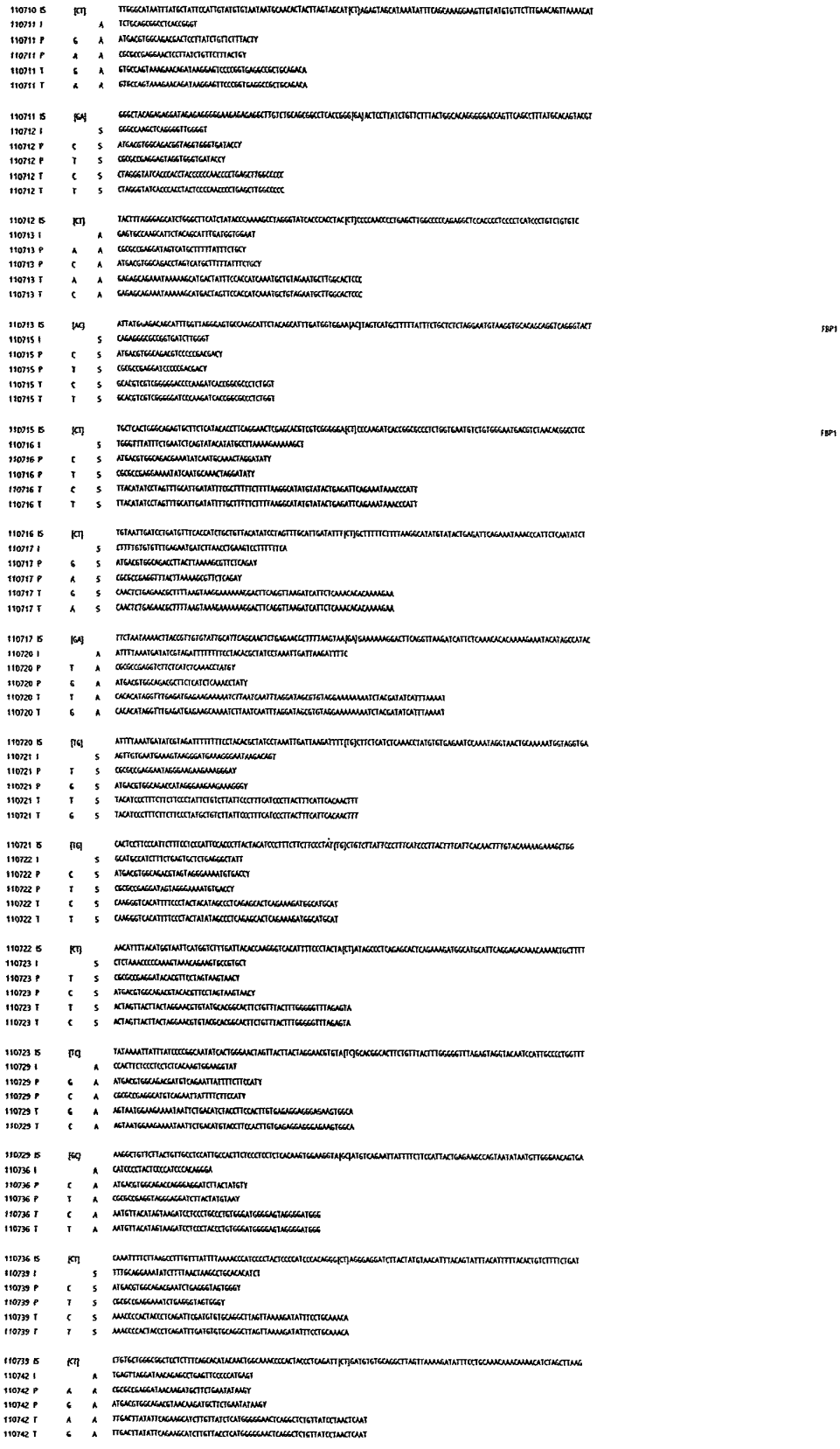
110703 IS	[CT]			ATGACATCAAAAATTCTTTATAAATATGTTTGAATGCAACAAATTATTGTTACCACTTGA[CT]ATTTTCCTTTTTGTTTGACATTGTTGTGGCAAAATTTGGTGAATATTATATAGGCTACAA
110705 I		S		GGAGGTATCCTTGCTTATAGAAATTCCAAAAGGAAGATGCCTTTCAAAAT
110705 P	G	S		ATGACGTGGCAGACCAGTCTTGAAGAGTAAAATGTATTCY
110705 P	T	S		CGCGCCGAGGAAGTCTTGAAGAGTAAAATGTATTCY
110705 T	G	S		TTAGGAATACATTTTACTCTTCAAGACTGTTTTGAAAGGCATCTTCCTTTTGGAATTTCTATAAGCAAGGATACCTCCAA
110705 T	T	S		TTAGGAATACATTTTACTCTTCAAGACTTTTTTGAAAGGCATCTTCCTTTTGGAATTTCTATAAGCAAGGATACCTCCAA

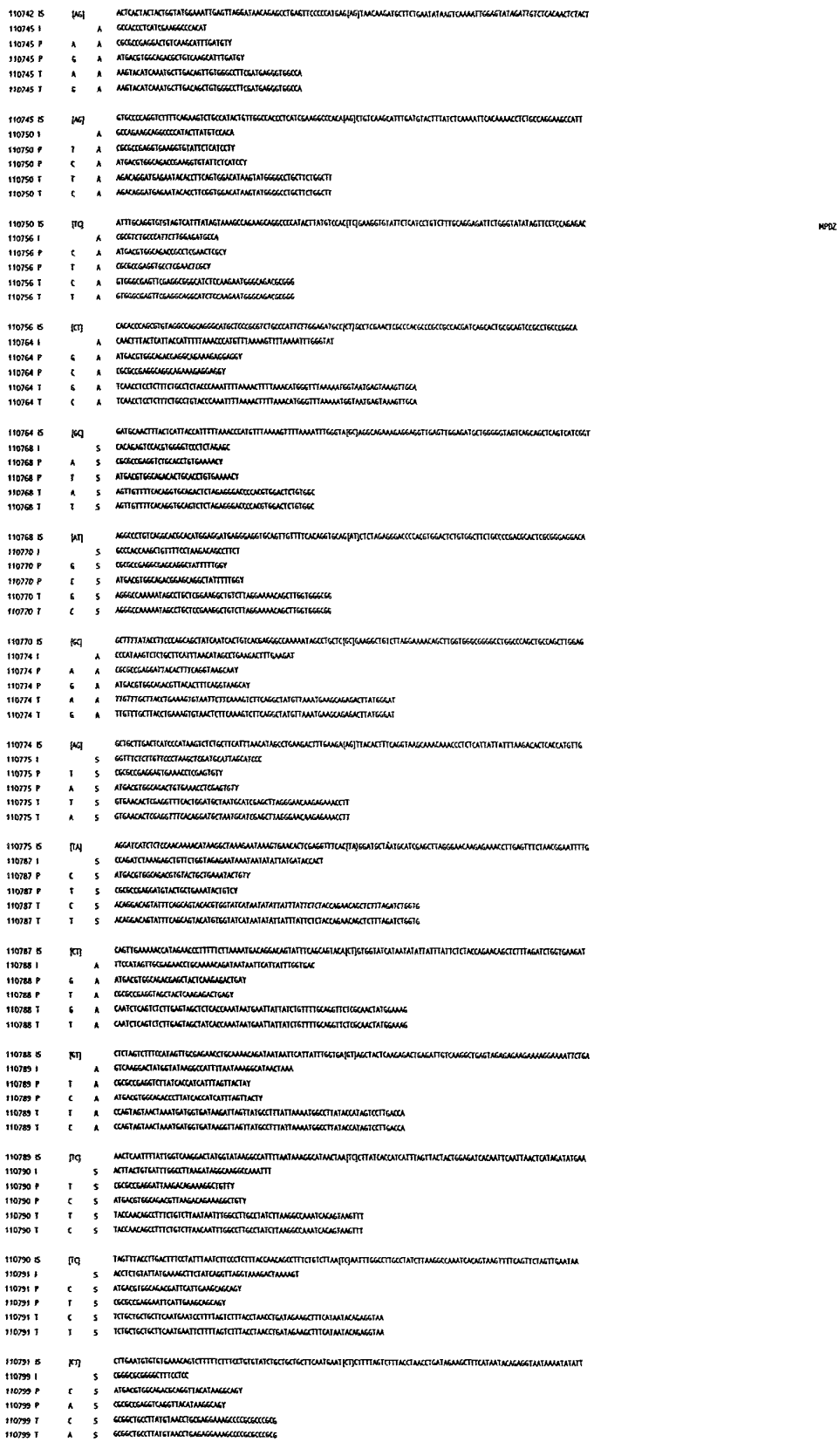
110705 IS	[GT]			GGAAATGTTTAAATAAAATGCTATAATCATCTTTAGGAATACATTTTACTCTTCAAGACT[GT]TTTTGAAAGGCATCTTCCTTTTGGAATTTCTATAAGCAAGGATACCTCCAATCCCTTGTG
110707 I		A		ATCTCAAAAACAATTGGATAAAAATCTAGTTATTAAATTTAATTTTCTTACATTGTAGAGT
110707 P	A	A		CGCGCCGAGGACAAGGCAAATGTTAACATCY
110707 P	G	A		ATGACGTGGCAGACGCAAGGCAAATGTTAACATY
110707 T	A	A		ACAAGATGTTAACATTTGCCTTGTCTCTACAATGTAAGAAAATTAAATTTAATAACTAGATTTTTATCCAATTGTTTTTGAGAT
110707 T	G	A		ACAAGATGTTAACATTTGCCTTGCCTCTACAATGTAAGAAAATTAAATTTAATAACTAGATTTTTATCCAATTGTTTTTGAGAT

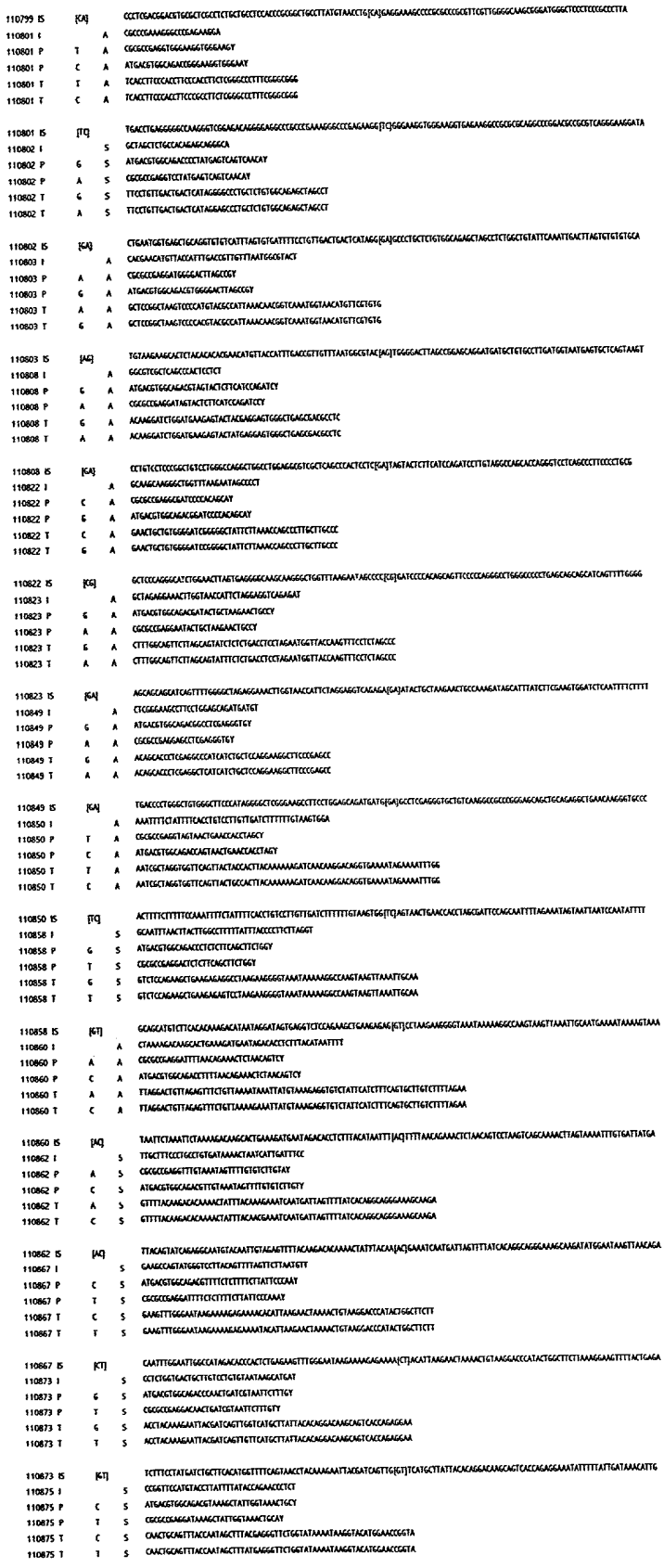
110707 IS	[AG]			ATCTCAAAAACAATTGGATAAAAATCTAGTTATTAAATTTAATTTTCTTACATTGTAGAG[AG]CAAGGCAAATGTTAACATCTTGTGTACTGTTGAACTCTTTTACAATCTTGAGTCTTTCCT
110709 I		S		GGCCATGGACCAACTTCAGTATCCTTTTTTGTGGTT
110709 P	G	S		CGCGCCGAGGCCAGAACAGCAGTAAACCY
110709 P	C	S		ATGACGTGGCAGACGCAGAACAGCAGTAAACCY
110709 T	G	S		TCTAGGTTTACTGCTGTTCTGGACCACAAAAAAGGATACTGAAGTTGGTCCATGGCCTG
110709 T	C	S		TCTAGGTTTACTGCTGTTCTGCACCACAAAAAAGGATACTGAAGTTGGTCCATGGCCTG

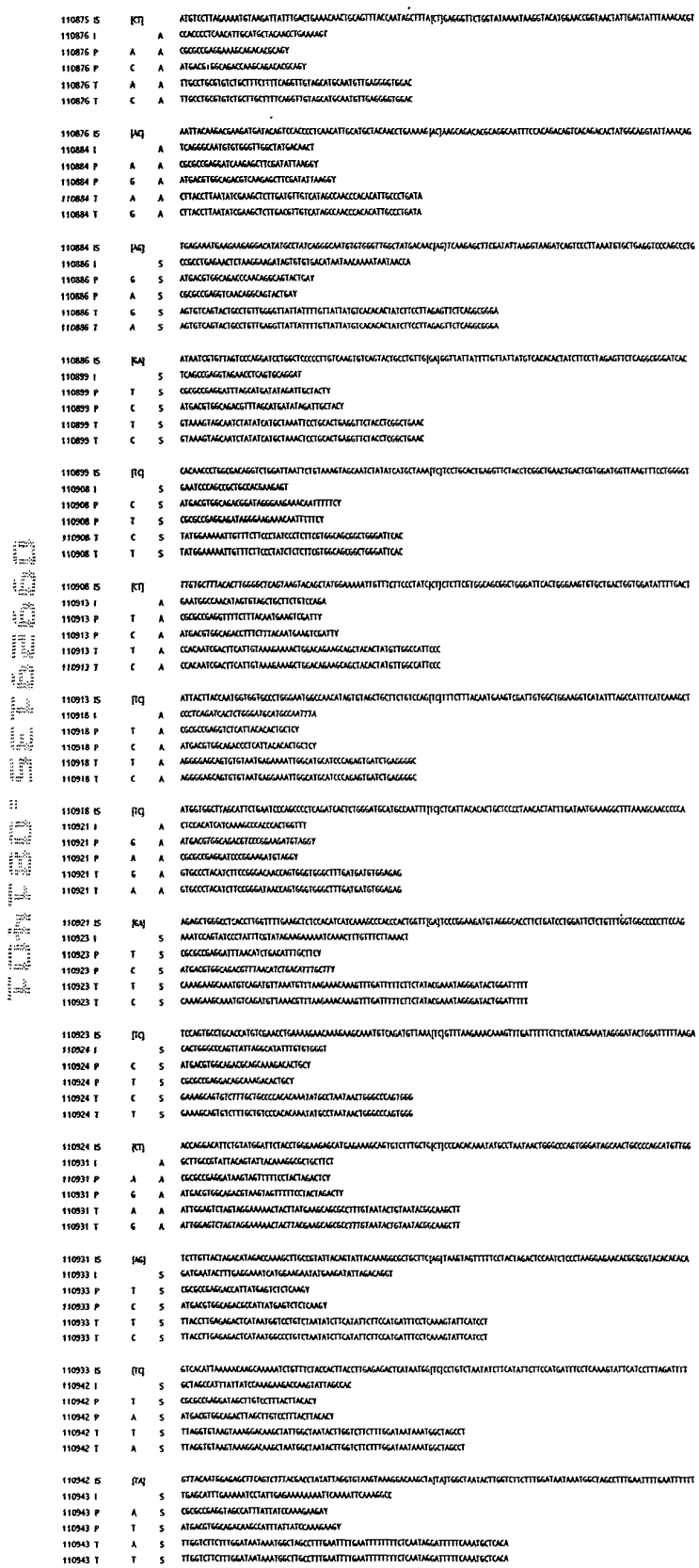
110709 IS	[GC]			TCTGCCTCTGTACTTGGTGAAAAAATGAAGCTGTTATTTTCTAGGTTTACTGCTGTTCTG[GC]ACCACAAAAAAGGATACTGAAGTTGGTCCATGGCCTGCTGGTTGATGGTTCCCATGCTAT
110710 I		S		AAGAACACATACAACTTCCTTTGCTGAAATATTTATGCTACTCTT
110710 P	C	S		ATGACGTGGCAGACGATGCTACTAAGTAGTGTTGCY
110710 P	T	S		CGCGCCGAGGAATGCTACTAAGTAGTGTTGCY
110710 T	C	S		TAATGCAACACTACTTAGTAGCATCAGAGTAGCATAAATATTTCAGCAAAGGAAGTTGTATGTGTTCTTTG
110710 T	T	S		TAATGCAACACTACTTAGTAGCATTAGAGTAGCATAAATATTTCAGCAAAGGAAGTTGTATGTGTTCTTTG

FIGURE 129G




MPDZ





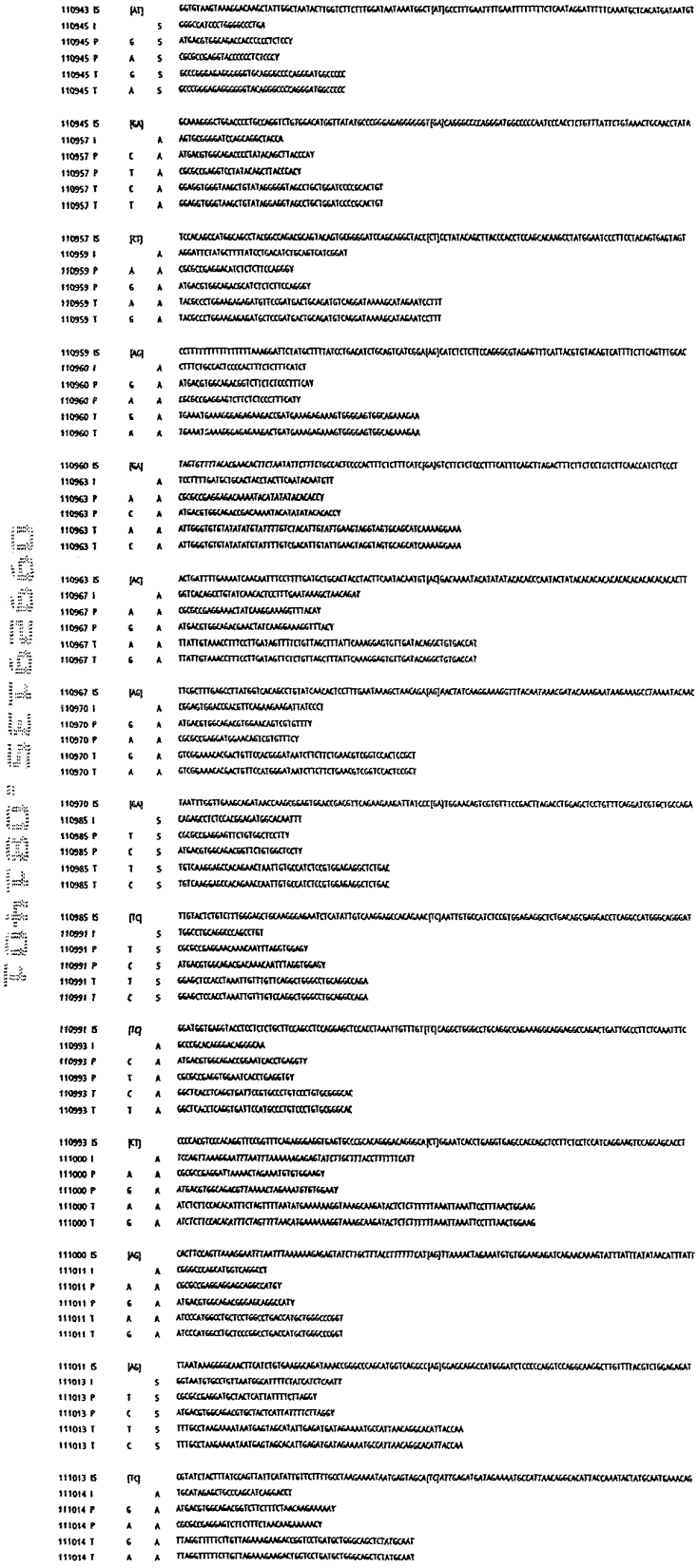
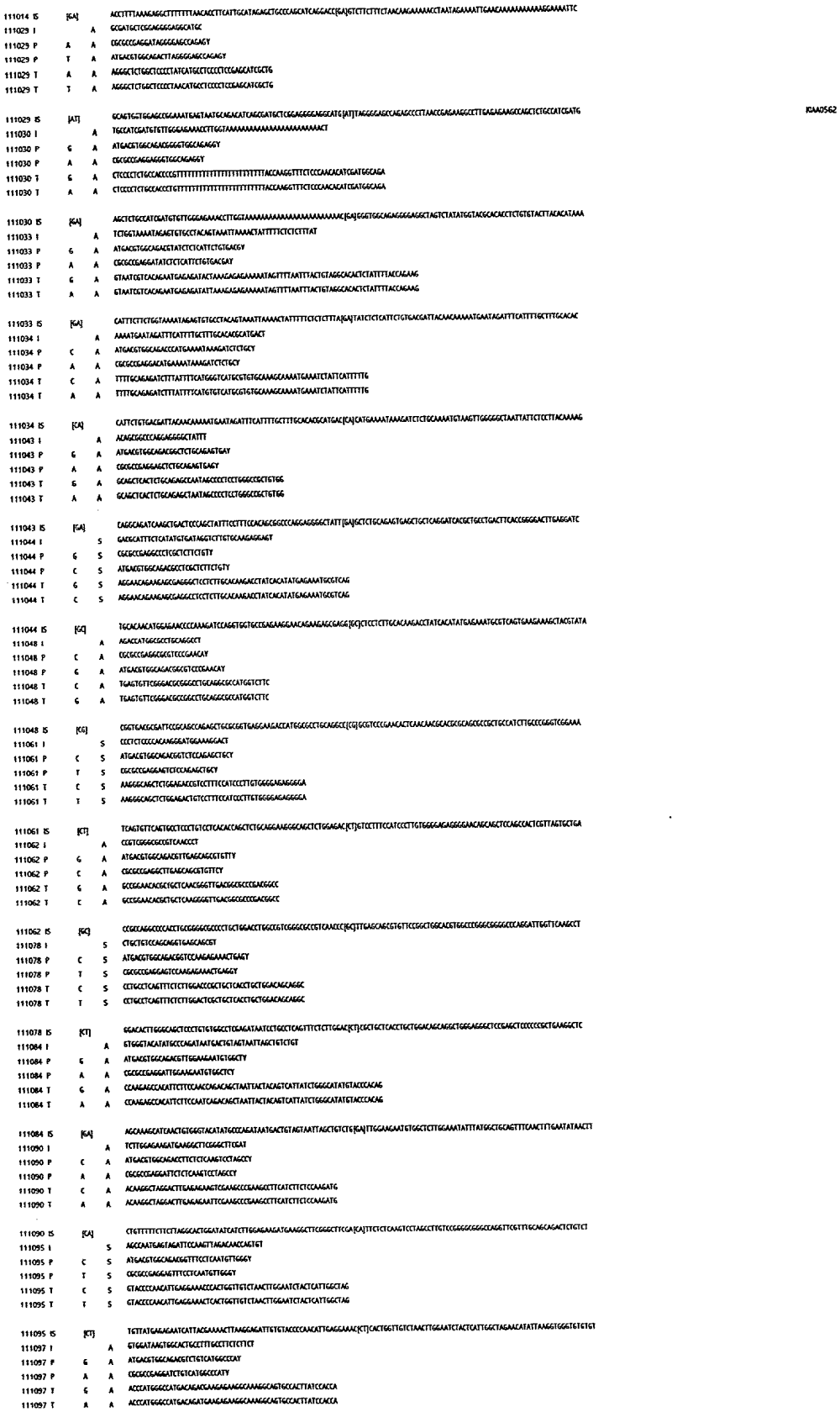
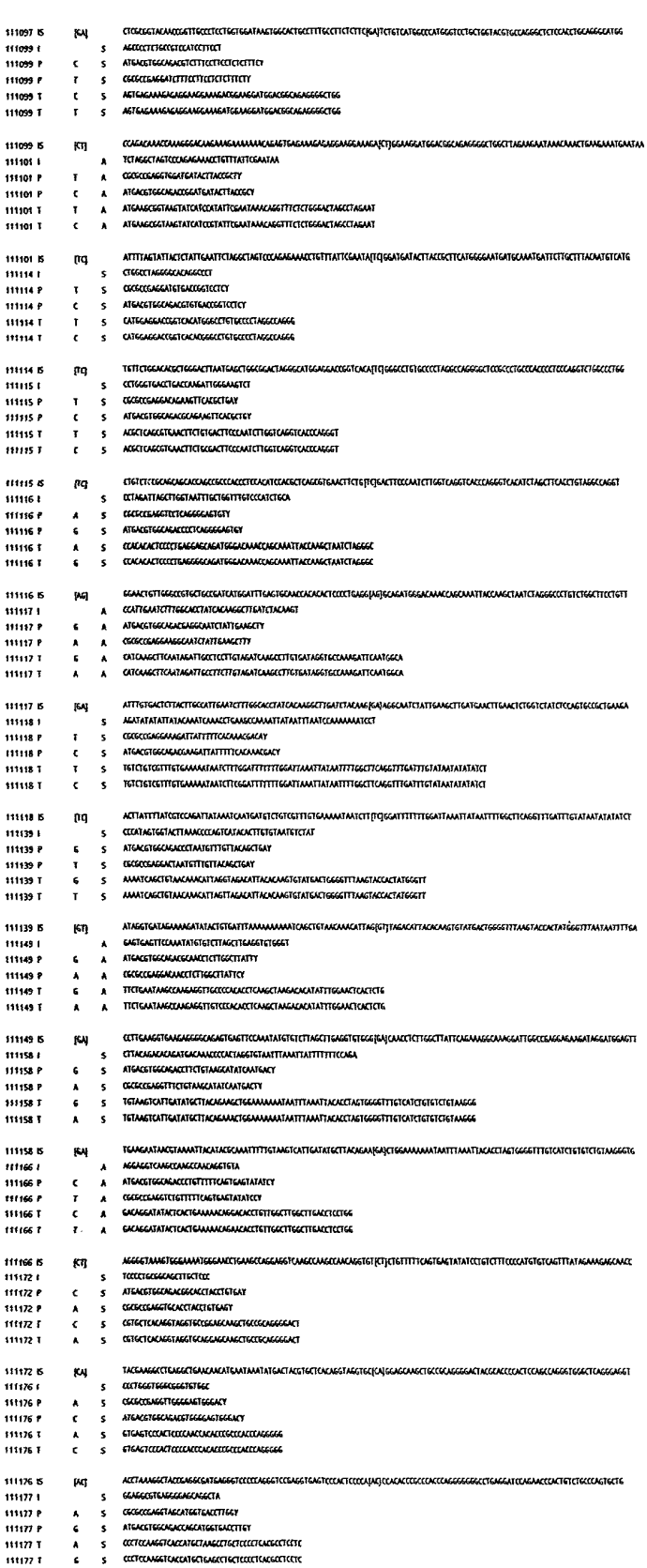

110943 IS [AT] GGTGTAAGTAAAGCACAAGCTATTGGCTAATACTTGGTCTTCTTTGGATAATAAATGGCT[AT]GCCTTTGAATTTTGAATTTTTTTTCTCAATAGGATTTTTCAAATGCTCACATGATAATGT
110945 I S GGGCCATCCCTGGGGCCCTGA
110945 P G S ATCACGTGGCAGACACCCCCCTCTCCY
110945 P A S CGCGCCGAGGTACCCCCCTCCCCY
110945 T G S GCCCGGGAGAGGCGGGTGCAGGGCCCCAGGGATGGCCCCC
110945 T A S GCCCGGGAGAGGGGGGTACAGGGCCCCAGGGATGGCCCCC
110945 IS [GA] GCAAAGGGCTGGACCCCTGCCAGGTCTGTGGACATGGTTATATGCCCGGGAGAGGGGGGTG[GA]CAGGGCCCCAGGGATGGCCCCCAATCCCACCTCTGTTTATTCTGTAAACTGCAACCTATA
110957 I A AGTGCGGGGATCCAGCAGGCTACCA
110957 P C A ATGACGTGGCAGACCCCTATACAGCTTACCCAY
110957 P T A CGCGCCGAGGTCCTATACAGCTTACCCACY
110957 T C A GGAGGTGGGTAAGCTGTATAGGGGGTAGCCTGCTGGATCCCCGCACTGT
110957 T T A GGAGGTGGGTAAGCTGTATAGGAGGTAGCCTGCTGGATCCCCGCACTGT
110957 IS [CT] TCCACAGCCATGGCAGCCTACGGCCAGACGCAGTACAGTGCGGGGATCCAGCAGGCTACC[CT]CCTATACAGCTTACCCACCTCCAGCACAAGCCTATGGAATCCCTTCCTACAGTGAGTAGT
110959 I A AGGATTCTATGCTTTTATCCTGACATCTGCAGTCATCGGAT
110959 P A A CGCGCCGAGGACATCTCTCTTCCAGGGY
110959 P G A ATGACGTGGCAGACGCATCTCTCTTCCAGGGY
110959 T A A TACGCCCTGGAAGAGAGATGTTCCGATGACTGCAGATGTCAGGATAAAGCATAGAATCCTTT
110959 T G A TACGCCCTGGAAGAGAGATGCTCCGATGACTGCAGATGTCAGGATAAAGCATAGAATCCTTT
110959 IS [AG] CCTTTTTTTTTTTTTTTAAAGGATTCTATGCTTTTATCCTGACATCTGCAGTCATCGGA[AG]CATCTCTCTTCCAGGGCGTAGAGTTTCATTACGTGTACAGTCATTTTCTTCAGTTTGCAC
110960 I A CTTTCTGCCACTCCCCACTTTCTCTTTCATCT
110960 P G A ATGACGTGGCAGACGGTCTTCTCTCCCTTTCAY
110960 P A A CGCGCCGAGGAGTCTTCTCTCCCCTTTCATY
110960 T G A TGAAATGAAAGGAAGAGAAGACCGATGAAAGAGAAAGTGGGGAGTGGCAGAAAGAA
110960 T A A TGAAATGAAAGGAAGAGAAGACTGATGAAAGAGAAAGTGGGGAGTGGCAGAAAGAA
110960 IS [GA] TAGTGTTTTACACGAACACTTCTAATATTCTTTCTGCCACTCCCCACTTTCTCTTTCATC[GA]GTCTTCTCTCCCTTTCATTTCAGCTTAGACTTTCTTCTCCTGTCTTCAACCATCTTCCCT
110963 I A TCCTTTTGATGCTGCACTACCTACTTCAATACAATGTT
110963 P A A CGCGCCGAGGAGACAAAATACATATATACACACCY
110963 P C A ATGACGTGGCAGACGACAAATACATATATACACACCY
110963 T A A ATTGGGTGTGTATATATGTATTTTGTCTACATTGTATTGAAGTAGGTAGTGCAGCATCAAAAGGAAA
110963 T C A ATTGGGTGTGTATATATGTATTTTGTCGACATTGTATTGAAGTAGGTAGTGCAGCATCAAAAGGAAA
110963 IS [AC] ACTGATTTTGAAAATCAACAATTTCCTTTTGATGCTGCACTACCTACTTCAATACAATGT[AC]GACAAAATACATATATACACACCCAATACTATACACACACACACACACACACACACTT
110967 I A GGTCACAGCCTGTATCCAACACTCCTTTGAATAAAGCTAACAGAT
110967 P A A CGCGCCGAGGAAACTATCAAGCAAAGGTTTACAY
110967 P G A ATGACGTGGCAGACGAACTATCAAGCAAAGGTTTACY
110967 T A A TTATTGTAAACCTTTCCTTGATAGTTTCTCTGTTAGCTTTATTCAAAGGAGTGTTGATACAGGCTGTGACCAT
110967 T G A TTATTGTAAACCTTTCCTTGATAGTTCTCTGTTAGCTTTATTCAAAGGAGTGTTGATACAGGCTGTGACCAT
110967 IS [AG] TTCGCTTTGAGCCTTATGGTCACAGCCTGTATCAACACTCCTTTGAATAAAGCTAACAGA[AG]AACTATCAAGGAAAGGTTTACAATAAACGATACAAAGAATAAGAAAGCCTAAAATACAAC
110970 I A CGGAGTGGACCCACCTTCAGAAGAAGATTATCCCT
110970 P G A ATGACGTGGCAGACGTGGAACAGTCGTGTTTY
110970 P A A CGCGCCGAGGATGGAACAGTCGTGTTTCY
110970 T G A GTCGGAAACACGACTGTTCCACGGGATAATCTTCTTCTGAACGTCGGTCCACTCCGCT
110970 T A A GTCGGAAACACGACTGTTCCATGGGATAATCTTCTTCTGAACGTCGGTCCACTCCGCT
110970 IS [GA] TAATTTGGTTGAAGCAGATAACCAAGCGGAGTGGACCGAGGTTCAGAAGAAGATTATCCC[GA]TGGAACAGTCGTGTTTCCGACTTAGACCTGGAGCTCCTGTTTCAGGATCGTGCTGCCAGA TARBP1
110985 I S CAGAGCCTCTCCACGGAGATGGCACAATTT
110985 P T S CGCGCCGAGGAGTTCTGTGGCTCCTTY
110985 P C S ATGACGTGGCAGACGGTTCTGTGGCTCCTY
110985 T T S TGTCAAGGAGCCACAGAACTAATTGTGCCATCTCCGTGGACAGGCTCTGAC
110985 T C S TGTCAAGGAGCCACAGAACCAATTGTGCCATCTCCGTGGACAGGCTCTGAC
110985 IS [TC] TTGTACTCTGTCTTTGGGAGCTGCAAGGGAGAATCTCATATTGTCAAGGAGCCACACAACC[TC]AATTGTGCCATCTCCGTGGAGAGGCTCTGACAGCGAGGACCTCAGGCCATGGGCAGGGAT
110991 I S TGGCCTGCAGGCCCAGCCTGT
110991 P T S CGCGCCGAGGAACAAACAATTTAGGTGGAGY
110991 P C S ATGACGTGGCAGACGACAAACAATTTAGGTGGAGY
110991 T T S GGAGCTCCACCTAAATTGTTTGTCAGGCTGGGCCTGCAGGCCAGA
110991 T C S GGAGCTCCACCTAAATTGTTTGTCAGGCTGGGCCTGCAGGCCAGA
110991 IS [TC] GGATGGTGAGGTACCTCCTCTCTGCTTCCAGCCTCCAGGAGCTCCACCTAAATTGTTTGT[TC]CAGGCTGGGCCTGCAGGCCAGAAAGGCAGGAGGAGGCCAGACTGATTGCCCTTCTCAAATTTC COROZA
110993 I A GCCCGCACAGGGACAGGGCAA
110993 P C A ATGACGTGGCAGACGGGAATCACCTGAGGTY
110993 P T A CGCGCCGAGGTGGAATCACCTGAGGTGY
110993 T C A GGCTCACCTCAGGTGATTCCGTGCCCTGTCCCTGTGCGGGCAC
110993 T T A GGCTCACCTCAGGTGATTCCATGCCCTGTCCCTGTGCGGGCAC
110993 IS [CT] CCCCACGTCCCACAGGTTCCGGTTTCAGAGGAGGTGAGTGCCCGCACAGGGACAGGGCA[CT]GGAATCACCTGAGGTGAGCCACCAGCTCCTTCCTCCATCAGGAAGTCCAGCAGCACCT
111000 I A TCCAGTTAAAGCAATTTAATTTAAAAAAGACAGTATCTGCTTTACCTTTTTTCATT
111000 P A A CGCGCCGAGGATTAAAACTAGAAATGTGTGGAAGY
111000 P G A ATGACGTGGCAGACGTTAAAACTAGAAATGTGTGGAAY
111000 T A A ATCTCTTCCACACATTTCTAGTTTTAATATGAAAAAGGTAAAGCAAGATACTCTCTTTTTTAAATTAAATTCCTTTAACTGGAAG
111000 T G A ATCTCTTCCACACATTTCTAGTTTTAACATGAAAAAGGTAAAGCAAGATACTCTCTTTTTTAAATTAAATTCCTTTAACTGGAAG
111000 IS [AG] CACTTCCAGTTAAAGGAATTTAATTTAAAAAAGAGAGTATCTTGCTTTACCTTTTTTCAT[AG]TTAAAACTAGAAATGTGTGGAAGAGATCAGAACAAGTATTTATTTATATAACATTTATT
111011 I A CGGGCCCAGCATGGTCAGGCCT
111011 P A A CGCGCCGAGGAGGAGCAGGCCATGY
111011 P G A ATGACGTGGCAGACGGGAGCAGGCCATY
111011 T A A ATCCCATGGCCTGCTCCTGGCCTGACCATGCTGGGCCCCGGT
111011 T G A ATCCCATGGCCTGCTCCCGGCCTGACCATGCTGGGCCCCGGT
111011 IS [AG] TTAATAAAGGGGCAACTTCCATCTGTGAAGGCAGATAAACCGGGCCCAGCATGGTCAGGCC[AG]GGAGCAGGCCATGGGATCTCCCCCAGGTCCAGGCAAGCCTTGTTTTACGTCTGGAGAGAT
111013 I S GGTAATGTGCCTGTTAATGGCATTTTCTATCATCTCAATT
111013 P T S CGCGCCGAGGATGCTACTCATTATTTTCTTAGGY
111013 P C S ATGACGTGGCAGACGTGCTACTCATTATTTTCTTAGGY
111013 T T S TTTGCCTAAGAAAATAATGAGTAGCATATTGAGATGATAGAAAATGCCATTAACAGGCACATTACCAA
111013 T C S TTTGCCTAAGAAAATAATGAGTAGCACATTGAGATGATAGAAAATGCCATTAACAGGCACATTACCAA
111013 IS [TC] GGTATCTACTTTATCCAGTTATTCATATTGTTCTTTTGCCTAAGAAAATAATGAGTAGCA[TC]ATTGAGATGATAGAAAATGCCATTAACAGGCACATTACCAAATACTATGCAATCAAACAG
111014 I A TGCATAGAGCTGCCCAGCATCAGGACCT
111014 P G A ATGACGTGGCAGACGGTCTTCTTTCTAACAAGAAAAAY
111014 P A A CGCGCCGAGGAGTCTCTCTTCCTAACAAGAAAAACY
111014 T G A TTAGGTTTTTCTTGTTAGAAAGAAGACCGGTCCTGATGCTGGGCAGCTCTATGCAAT
111014 T A A TTAGGTTTTTCTTGTTAGAAAGAAGACTGGTCCTGATGCTGGGCAGCTCTATGCAAT

FIGURE 129G





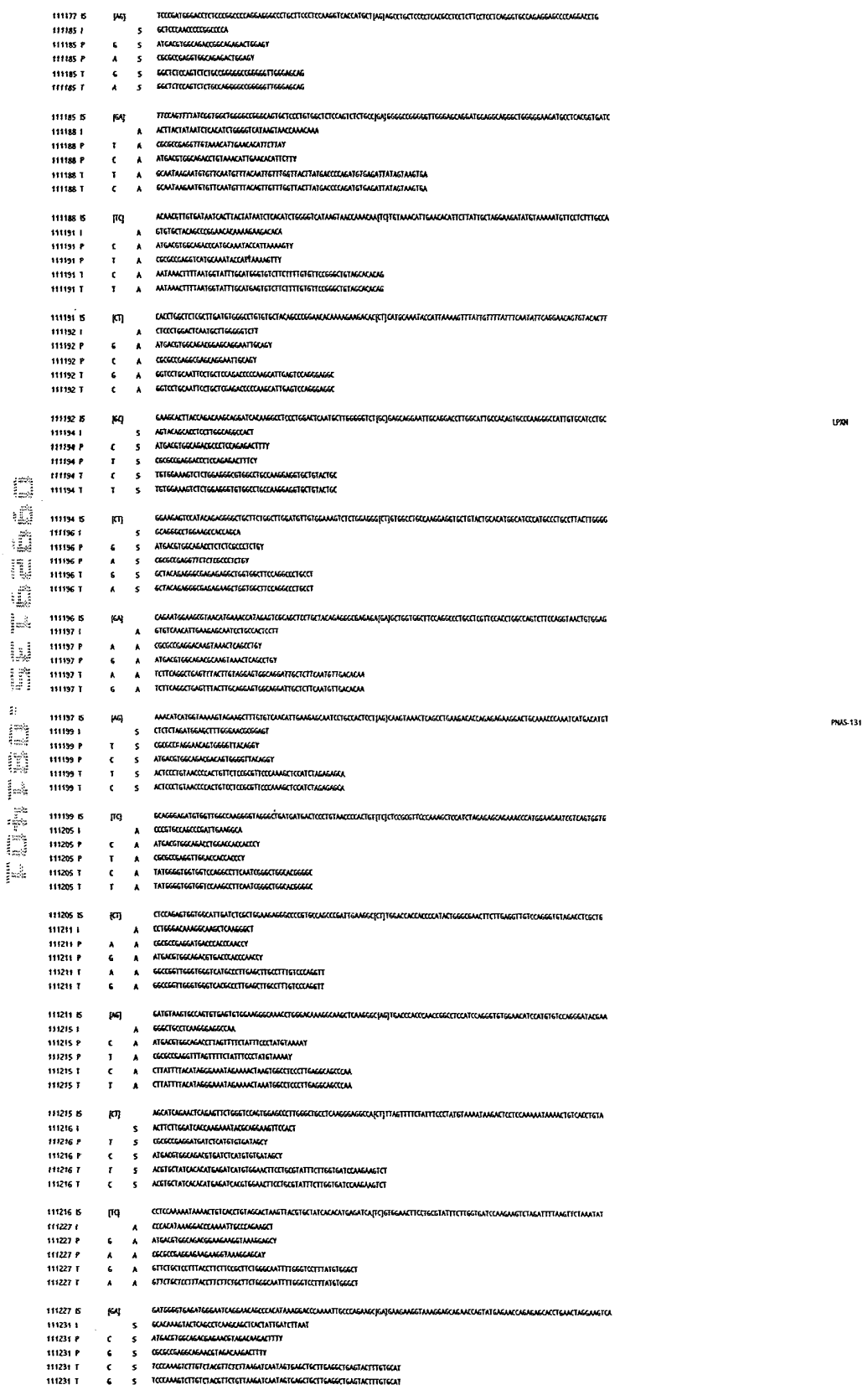


FIGURE 129G

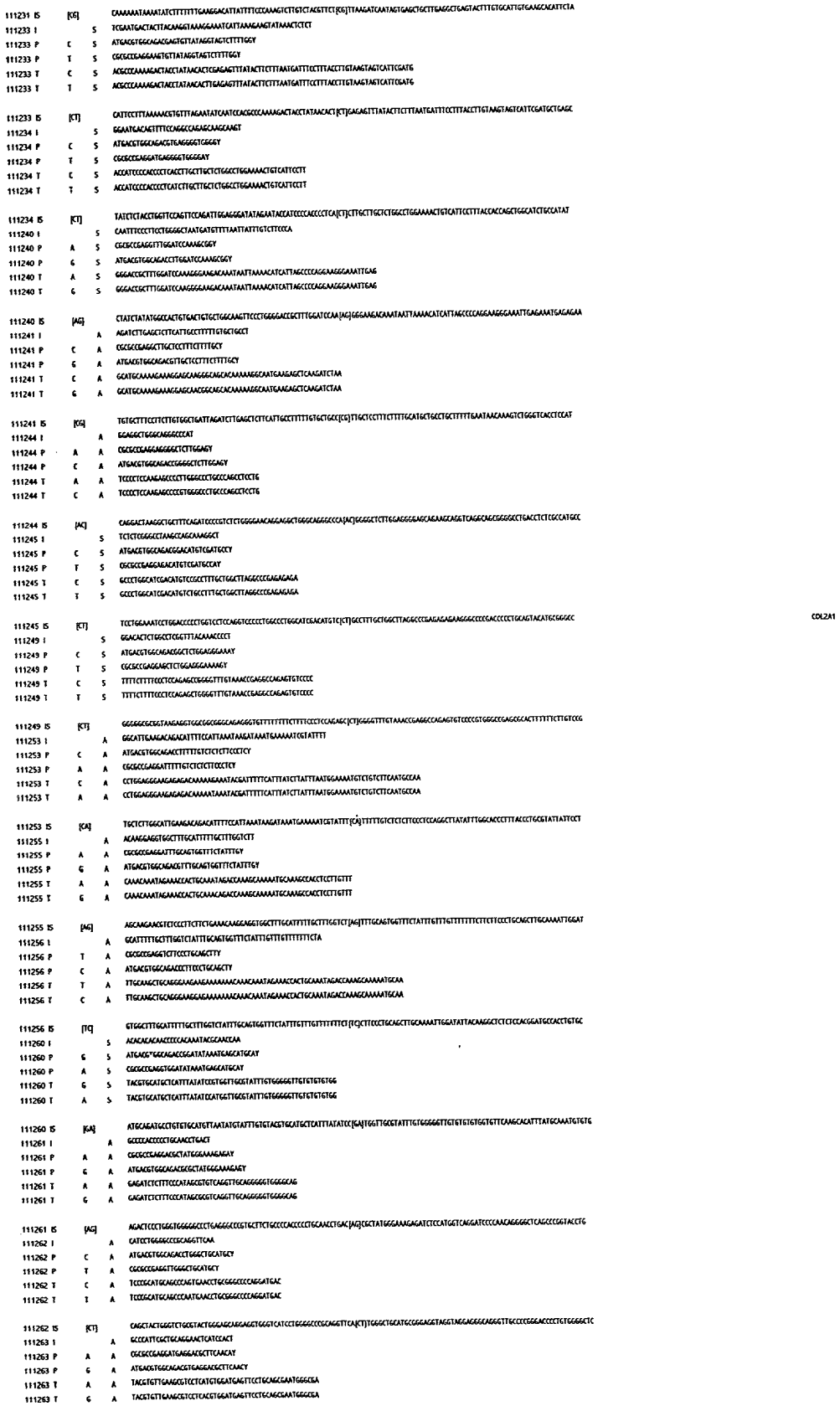


FIGURE 129G

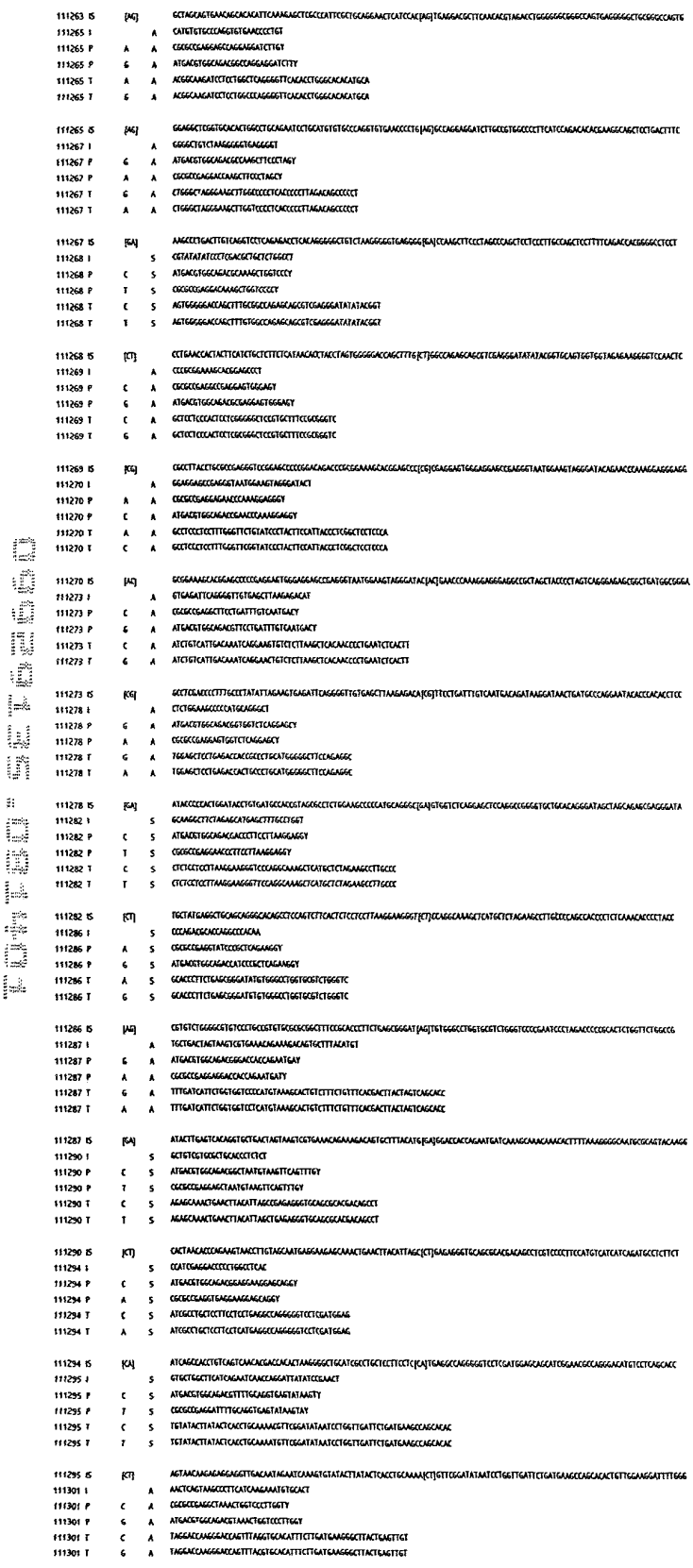
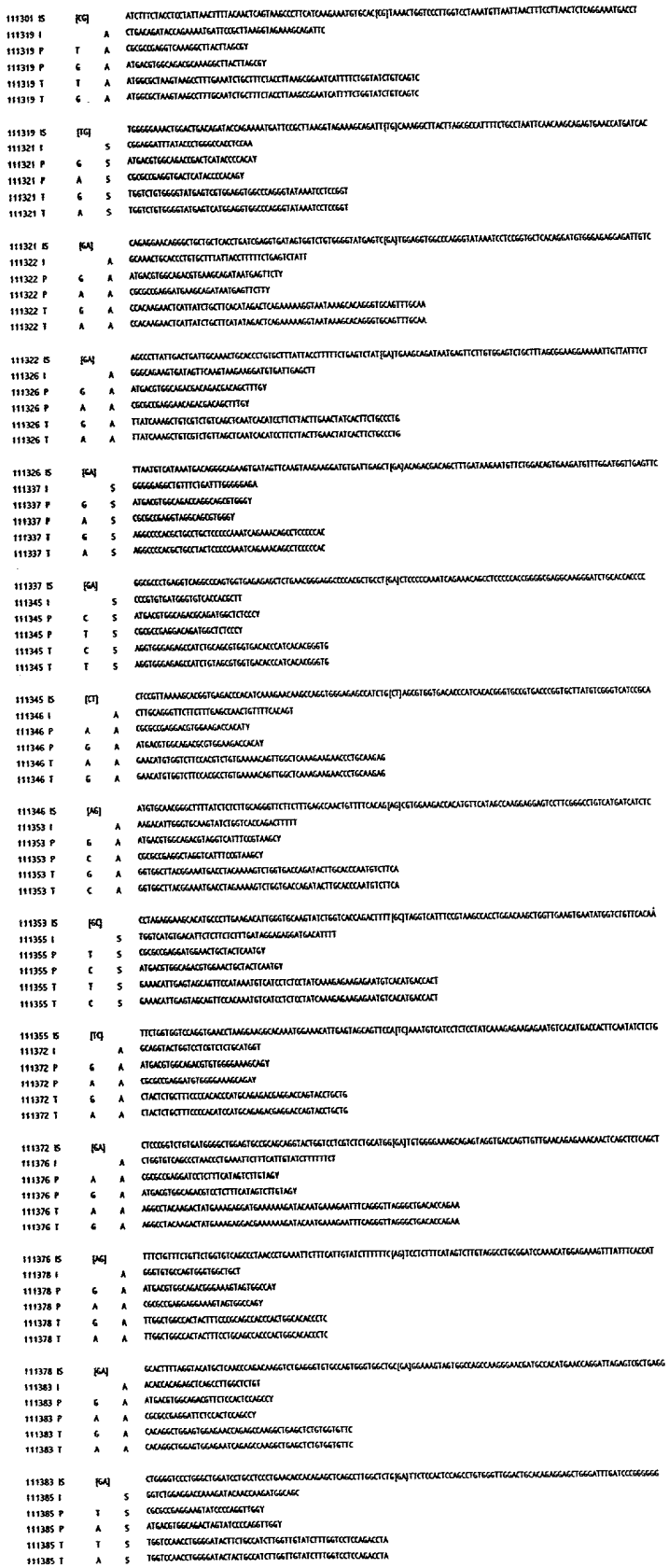
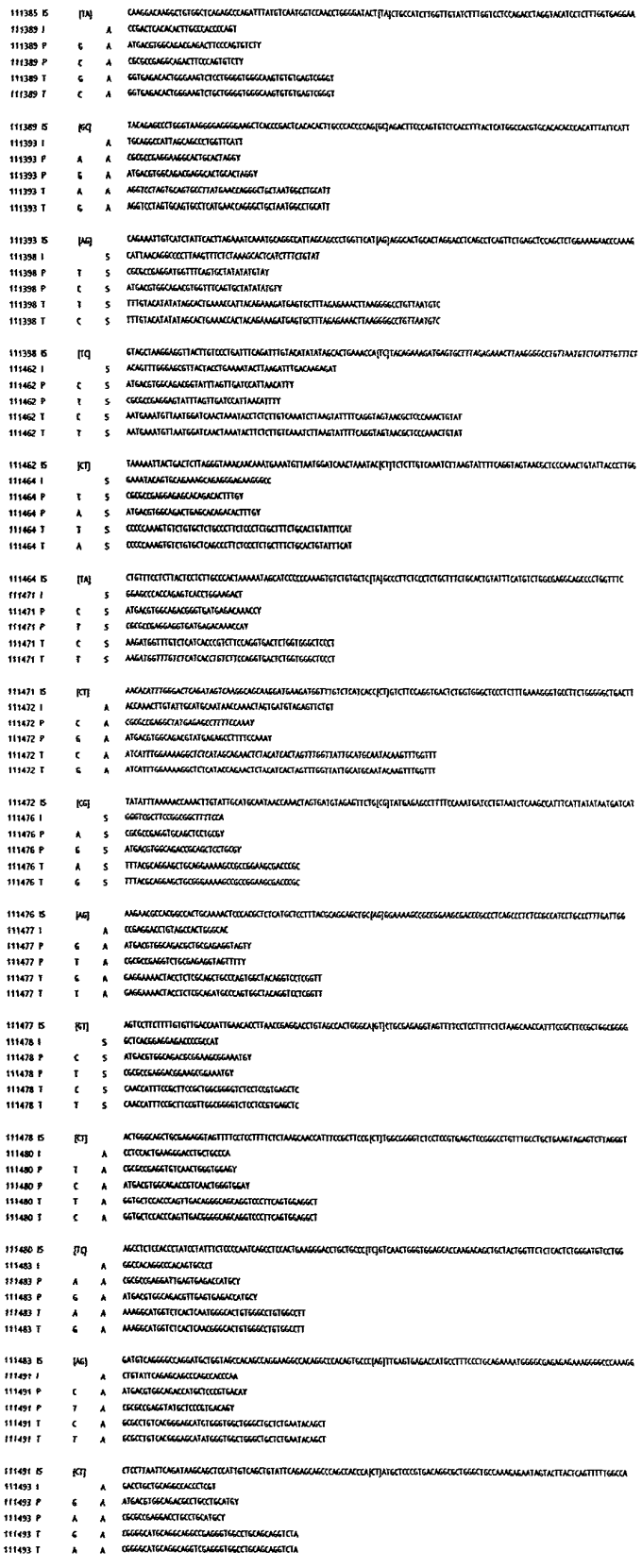
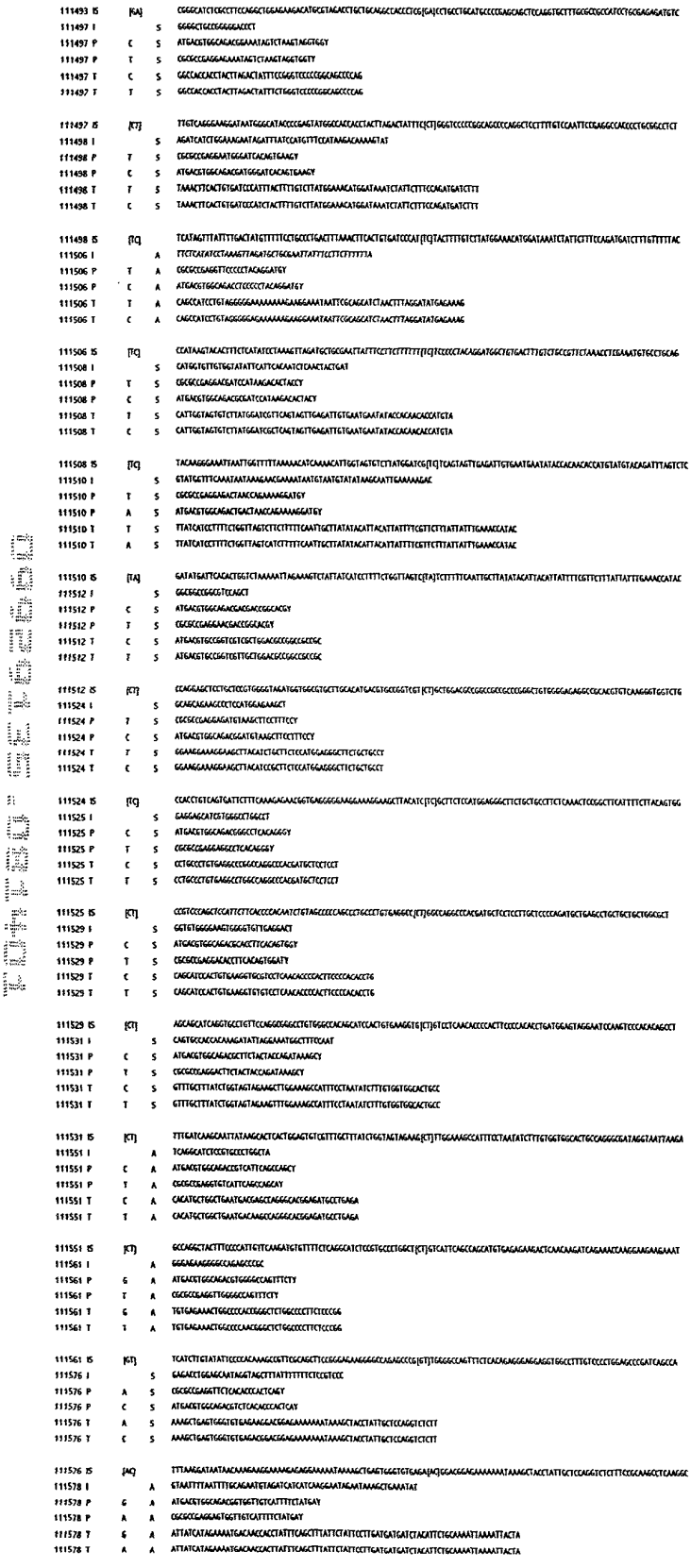

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111265 P A A CGCGCCCAGGAGCCAGGAGGATCTTGT
111265 P G A ATGACGTGGCAGACGGCCAGGAGGATCTTY
111265 T A A ACGGCAAGATCCTCCTGGCTCAGGGGTTCACACCTGGGCACACATGCA
111265 T G A ACGGCAAGATCCTCCTGGCCCAGGGGTTCACACCTGGGCACACATGCA
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111267 P G A ATGACGTGGCAGACGCCAAGCTTCCCTAGY
111267 P A A CGCGCCCAGGACCAAGCTTCCCTAGCY
111267 T G A CTGGGCTAGGGAAGCTTGGCCCCCTCACCCCCTTAGACAGCCCCCT
111267 T A A CTGGGCTAGGGAAGCTTGGTCCCCTCACCCCCTTAGACAGCCCCCT
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111269 P C A CGCGCCCAGGCCCAGGAGTGGGAGY
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111273 P C A CGCGCCGAGGCTTCCTGATTTGTCAATGACY
111273 P G A ATGACGTGGCAGACGTTCCTGATTTGTCAATGACY
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111282 P C S ATGACGTGGCAGACGACCCTCCTTAAGGAGGY
111282 P T S CGCGCCGAGGAACCCTCCTTAAGGAGGY
111282 T C S CTCTCCTCCTTAAGGAAGGGTCCCAGGCAAAGCTCATGCTCTAGAAGCCTTGCCC
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111290 P T S CGCGCCGAGGAGCTAATGTAAGTTCAGTTGY
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111294 P A S CGCGCCGAGGTGAGGAAGGAGCAGGY
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111301 P C A CGCGCCGAGGCTAAACTGGTCCCTTGGTY
111301 P G A ATGACGTGGCAGACGTAAACTGGTCCCTTGGY
111301 T C A TAGGACCAAGGGACCAGTTTAGGTGCACATTTCTTGATGAAGGGCTTACTGAGTTGT
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FIGURE 129G



Sequence Listing Page 1 of 1





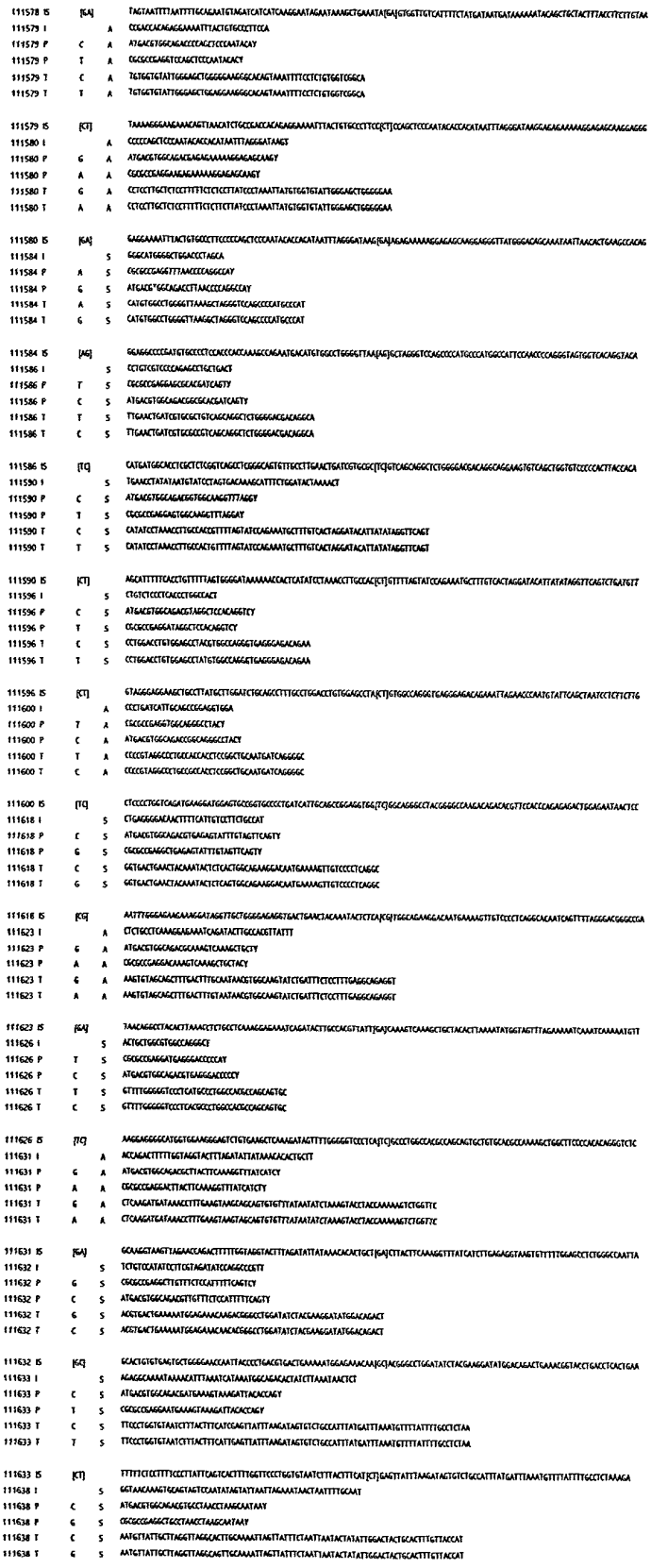


FIGURE 129G

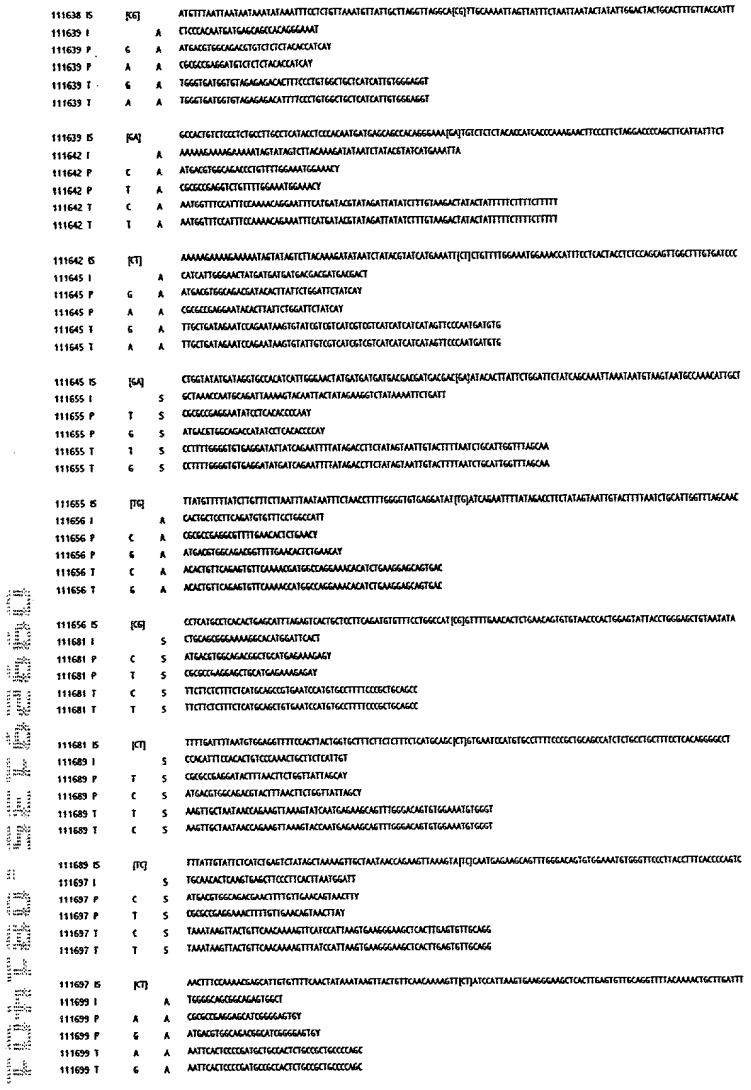


FIGURE 129G

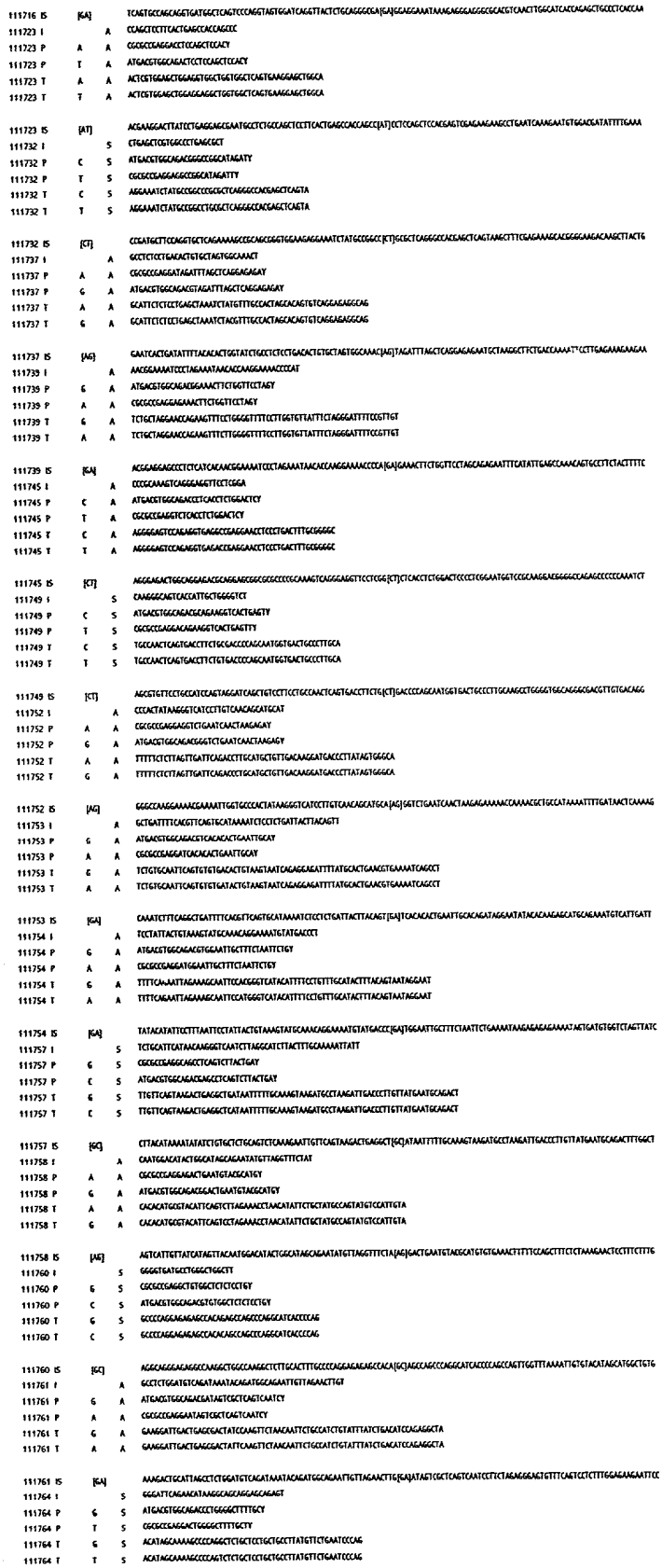
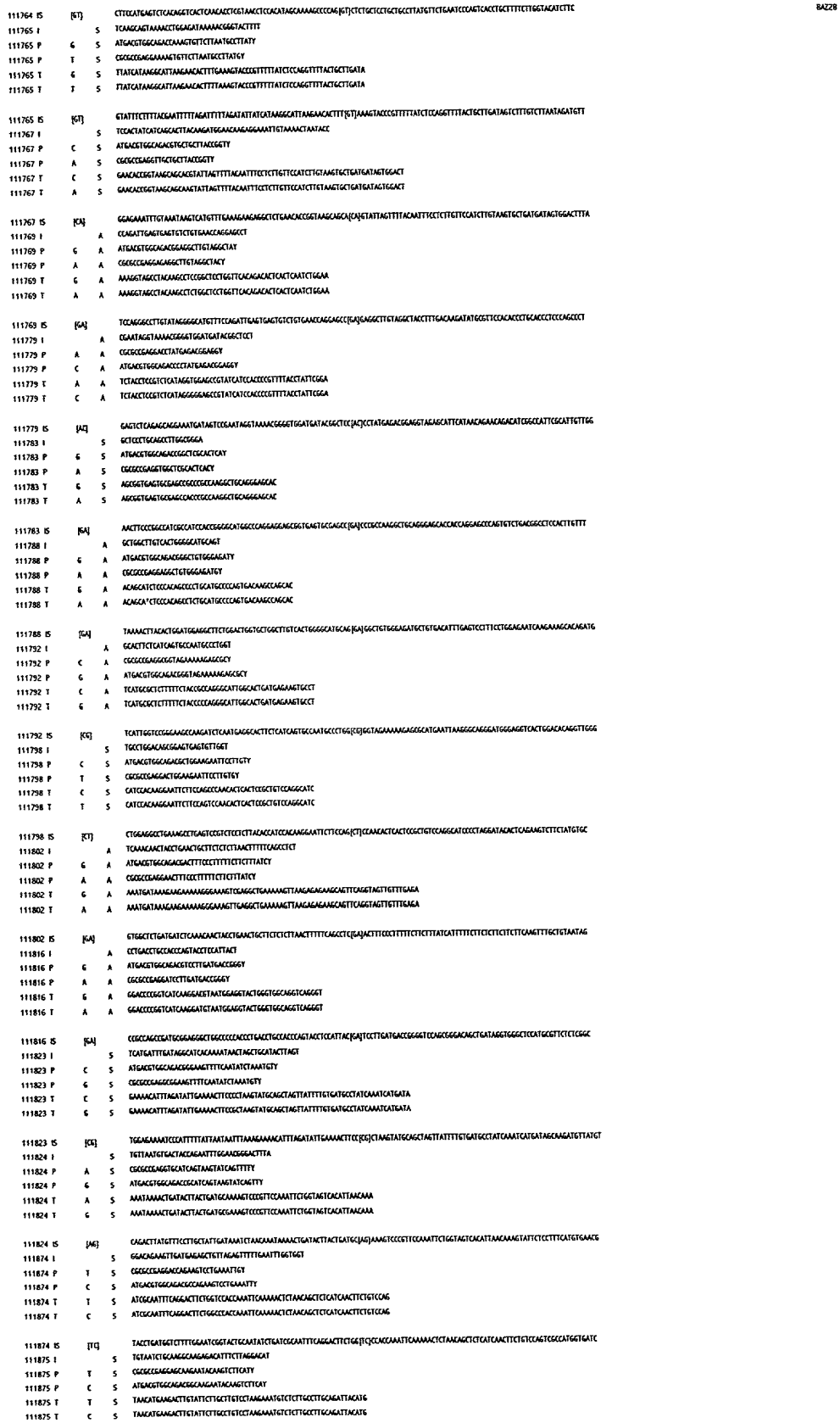
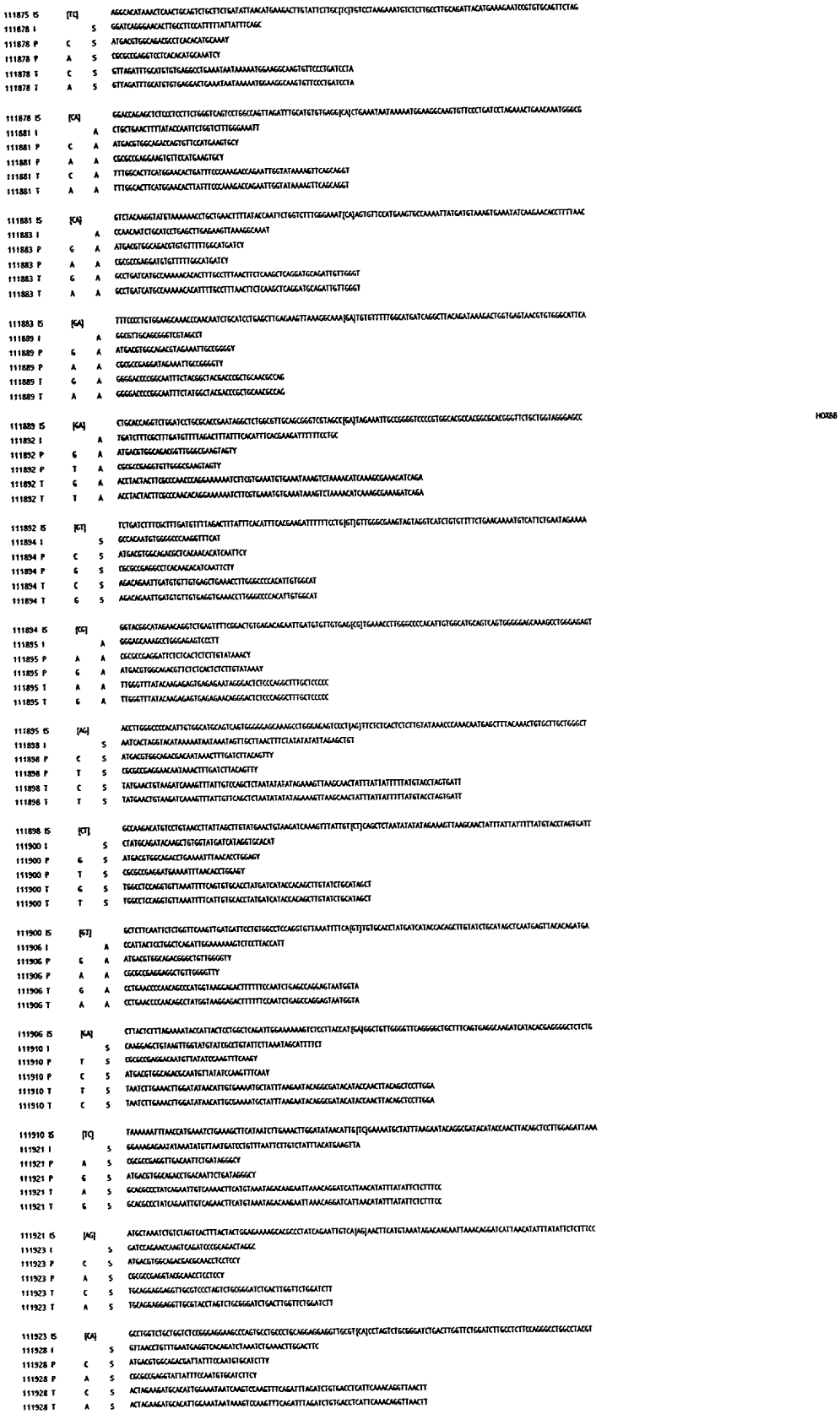


FIGURE 129G



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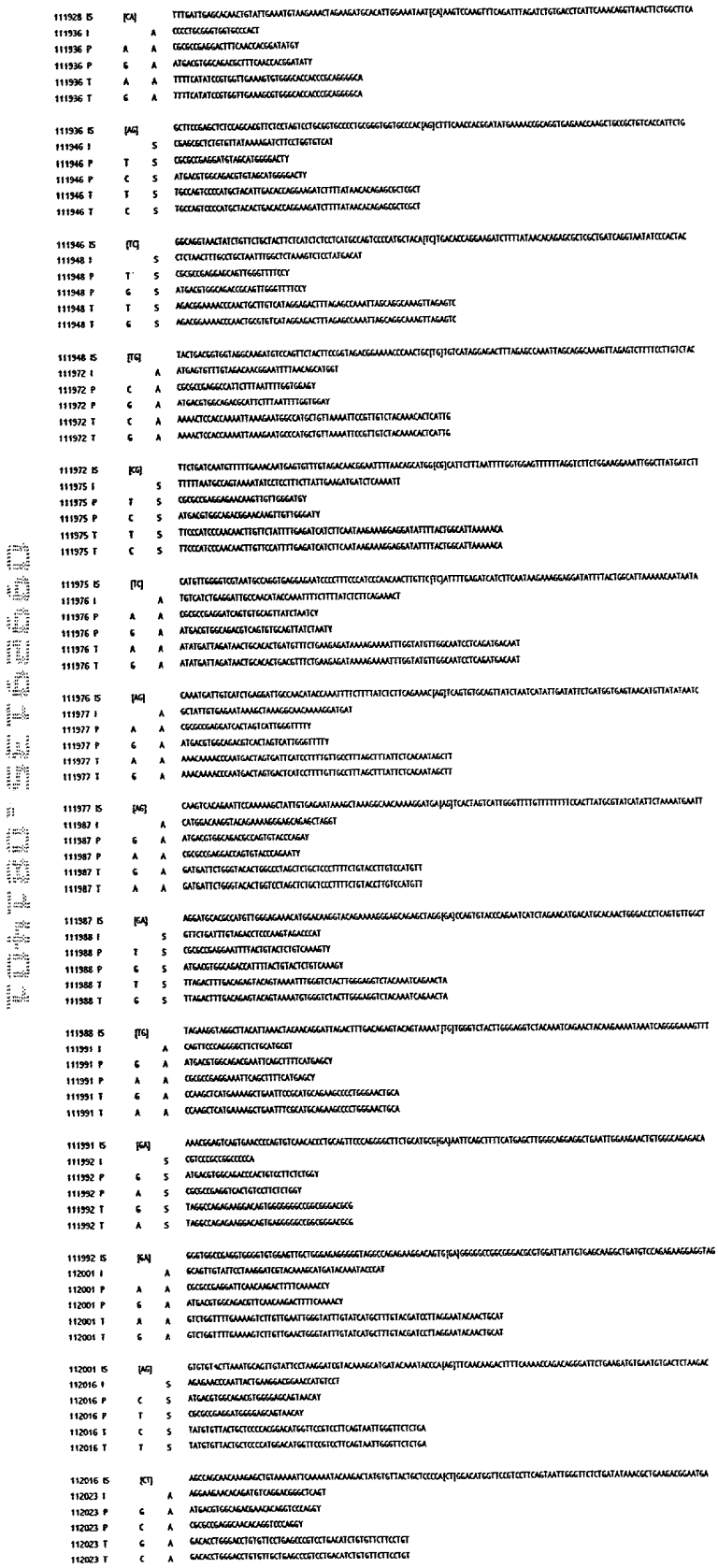
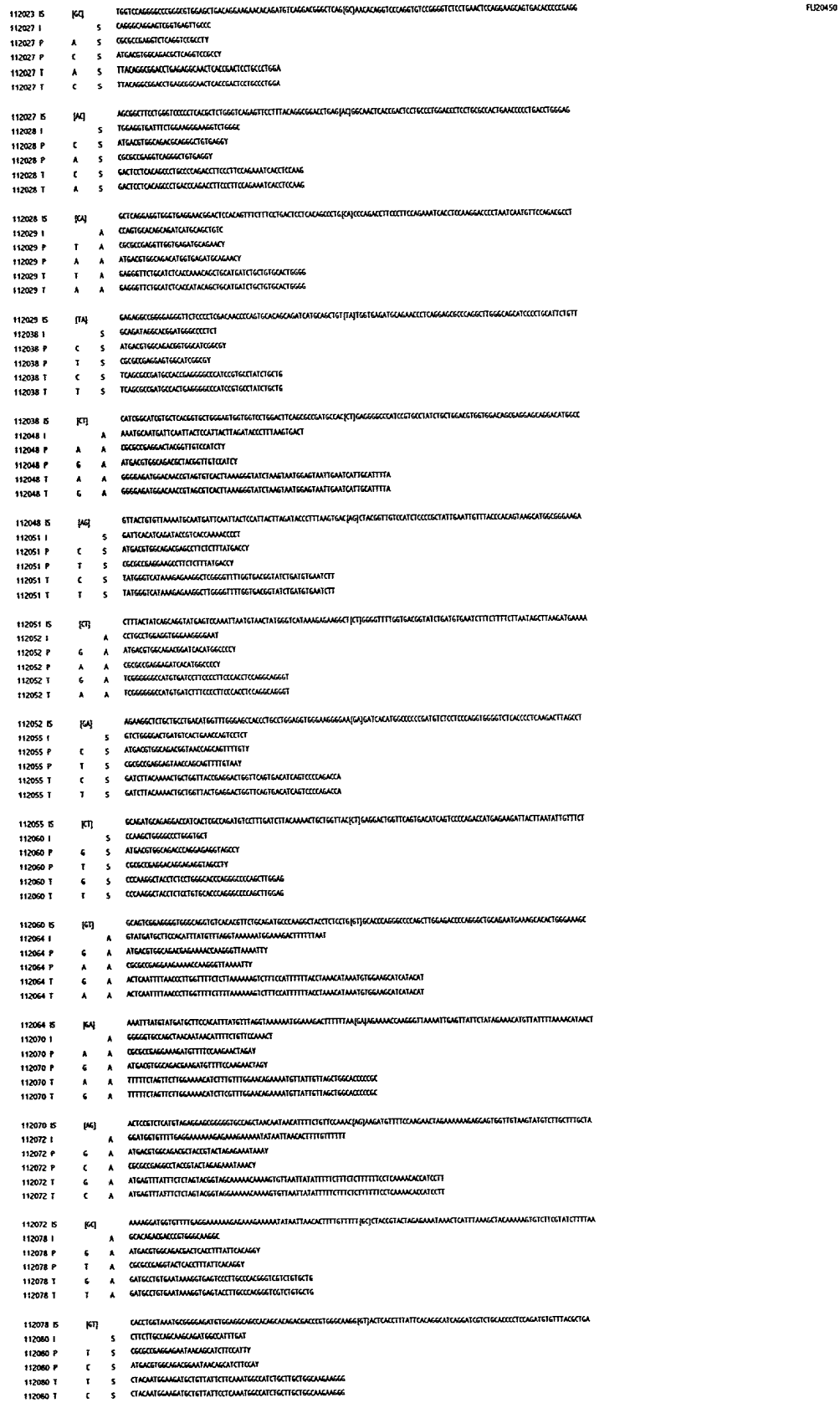
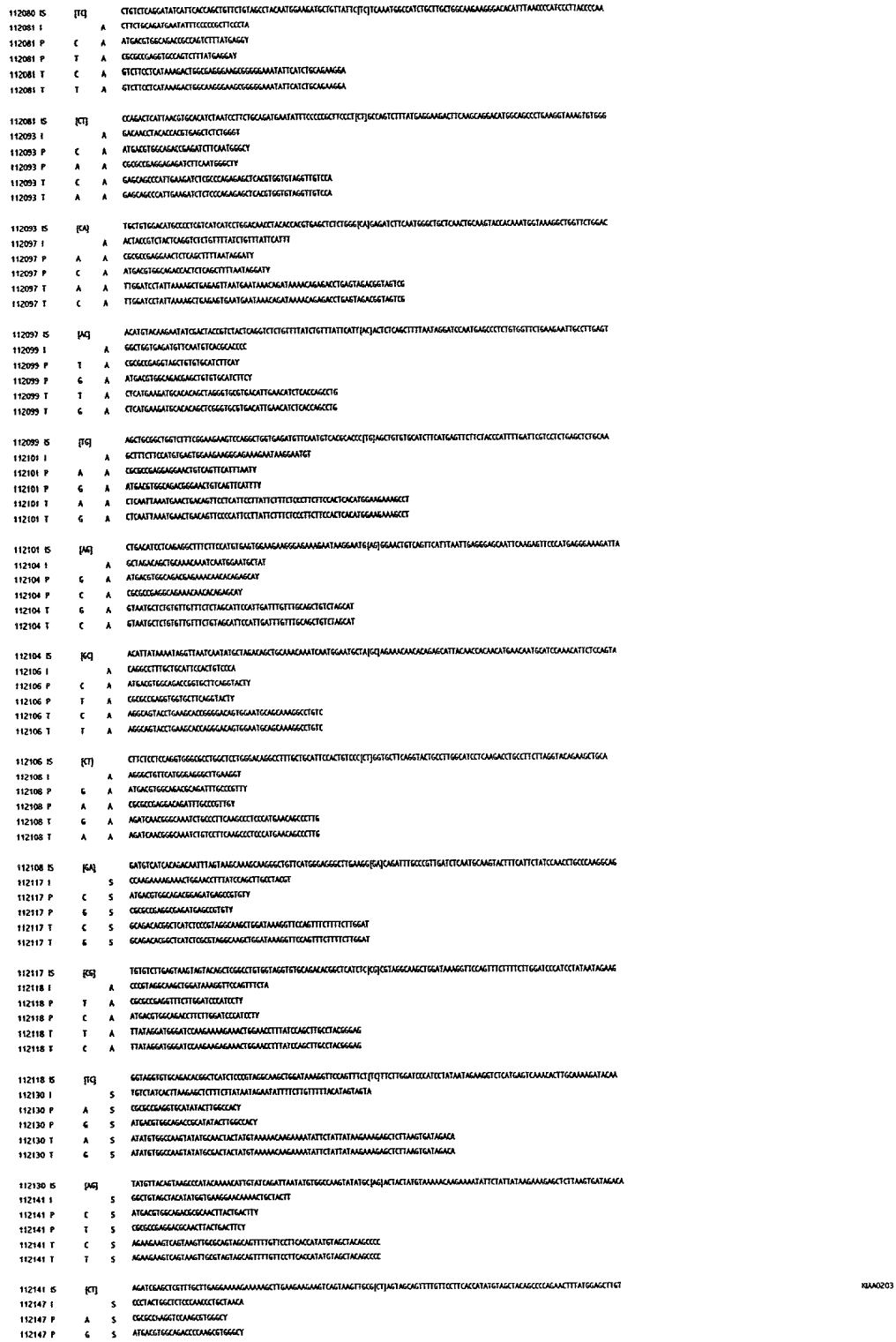


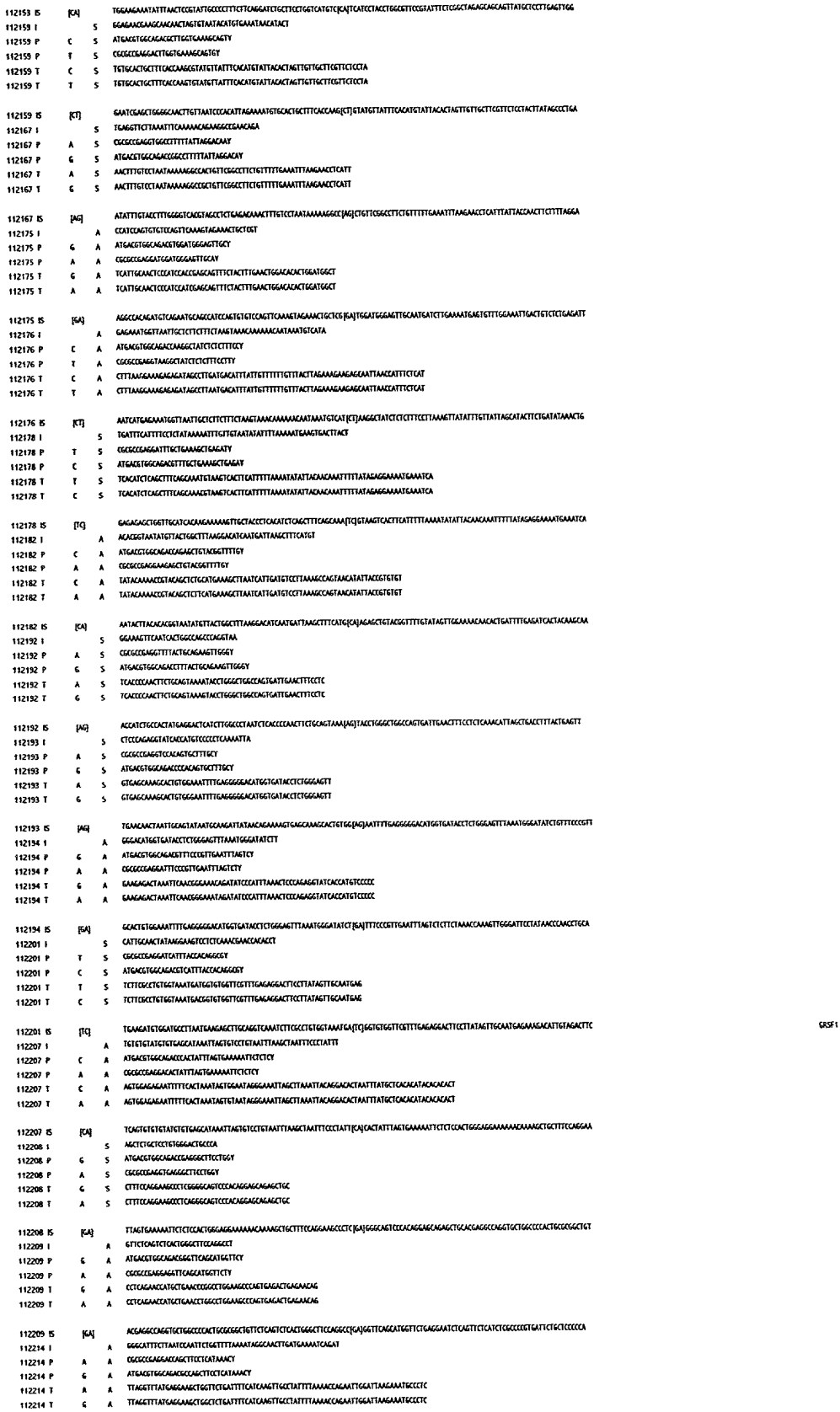
FIGURE 129G

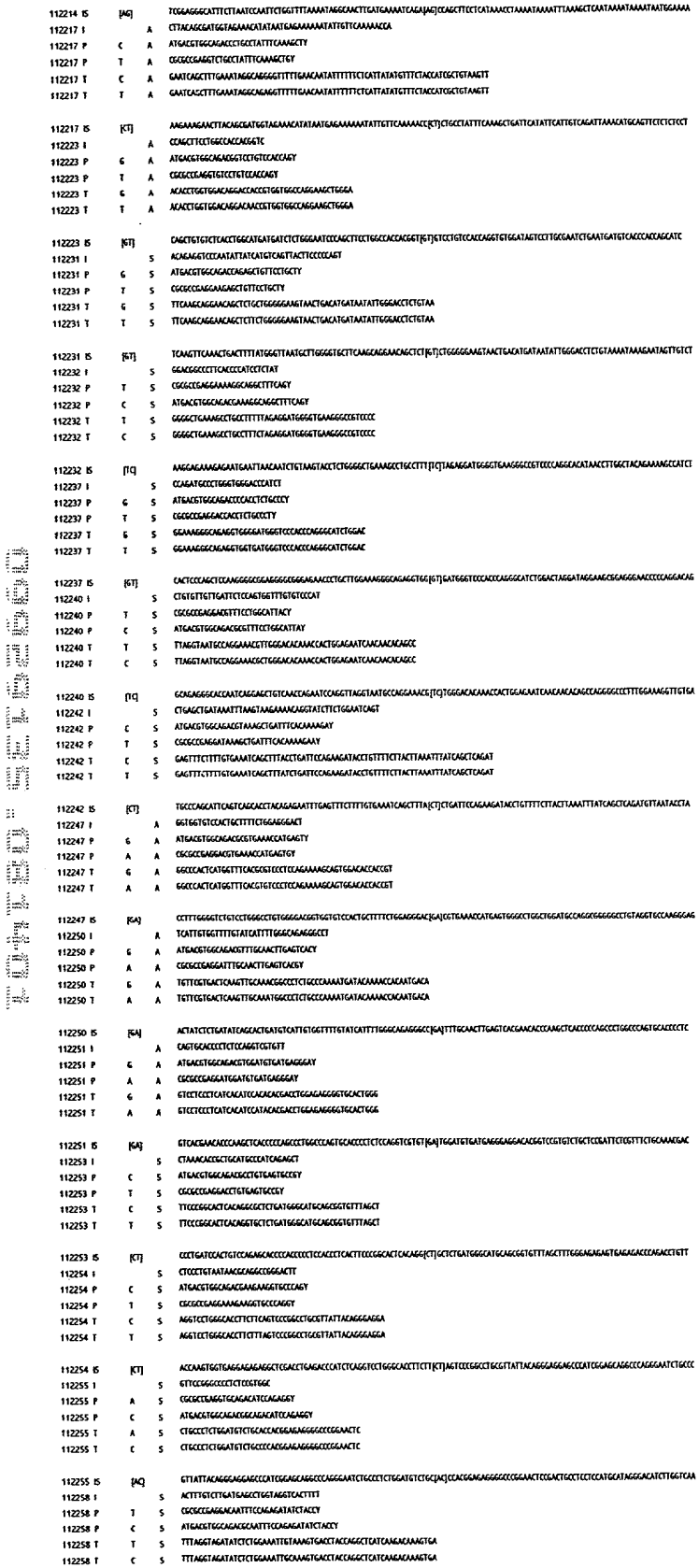


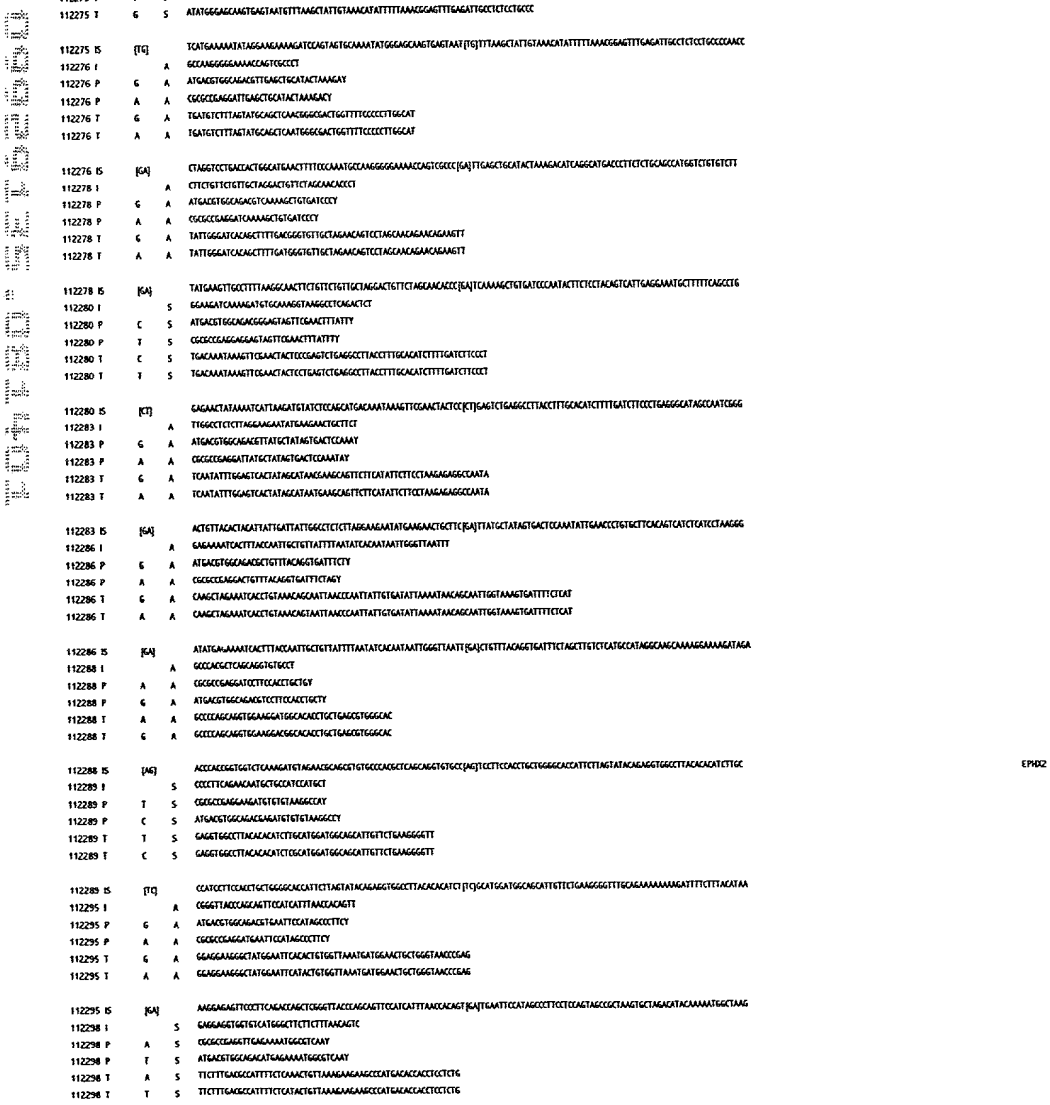
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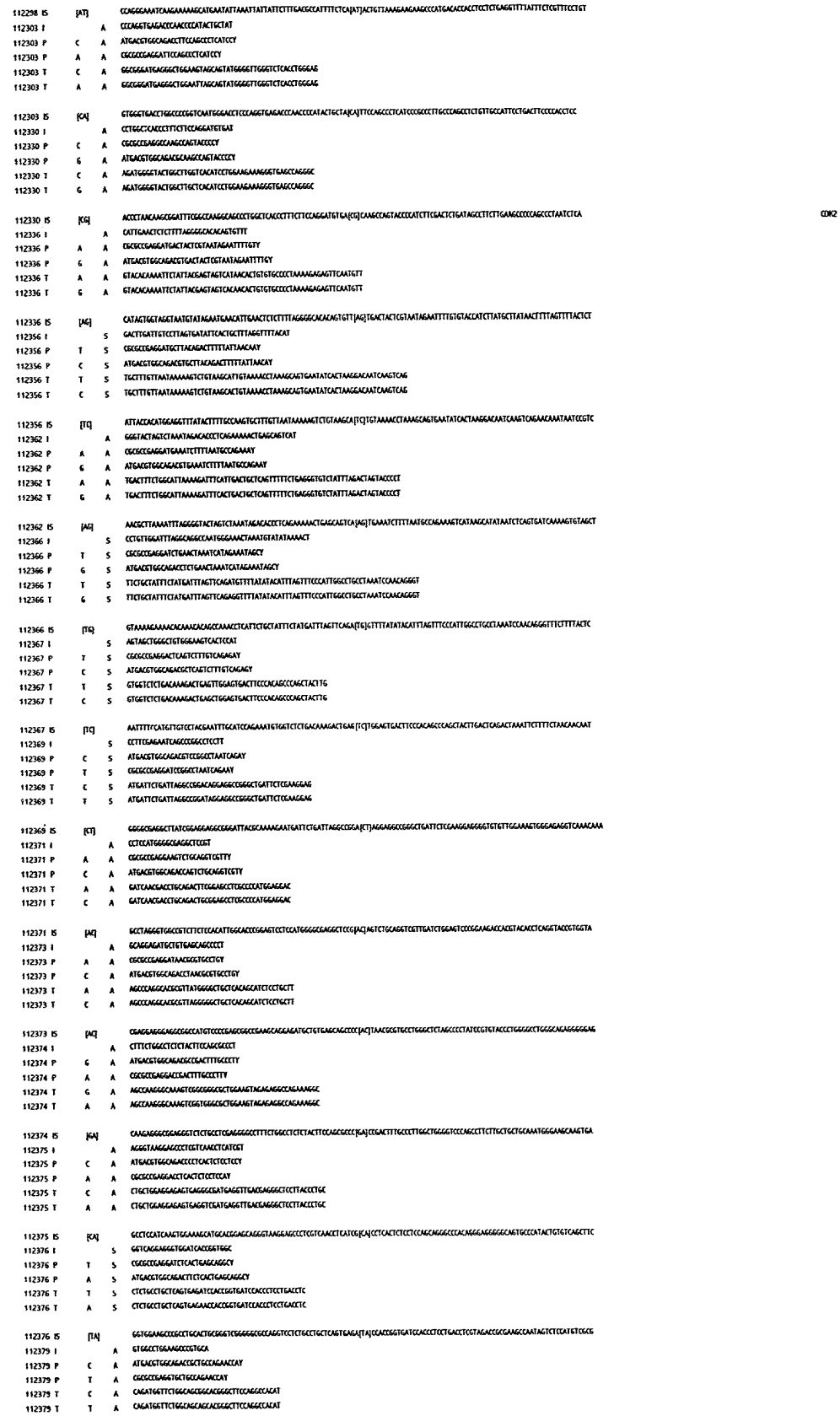
FIGURE 129G





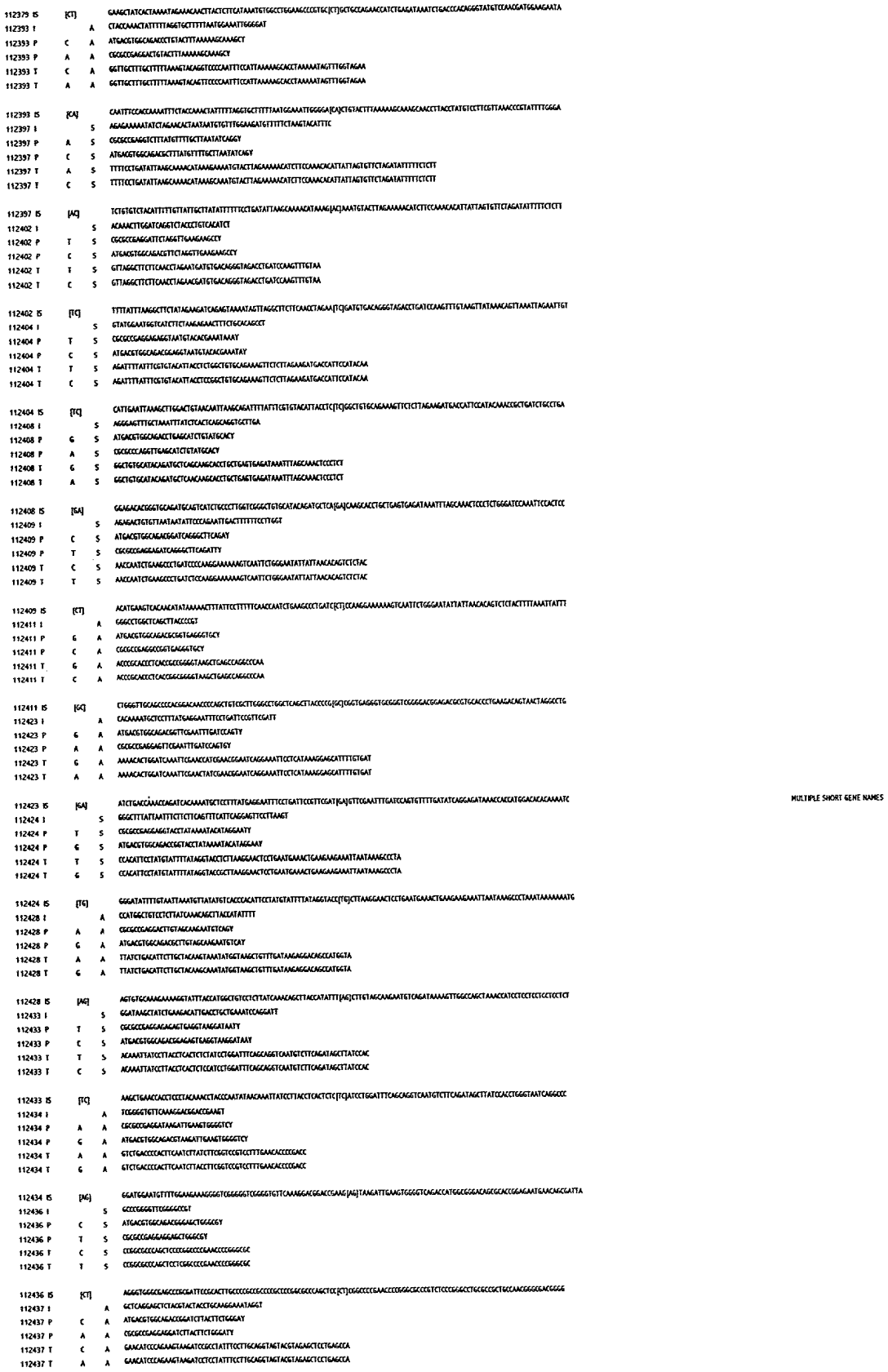



EPHX2



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FIGURE 129G



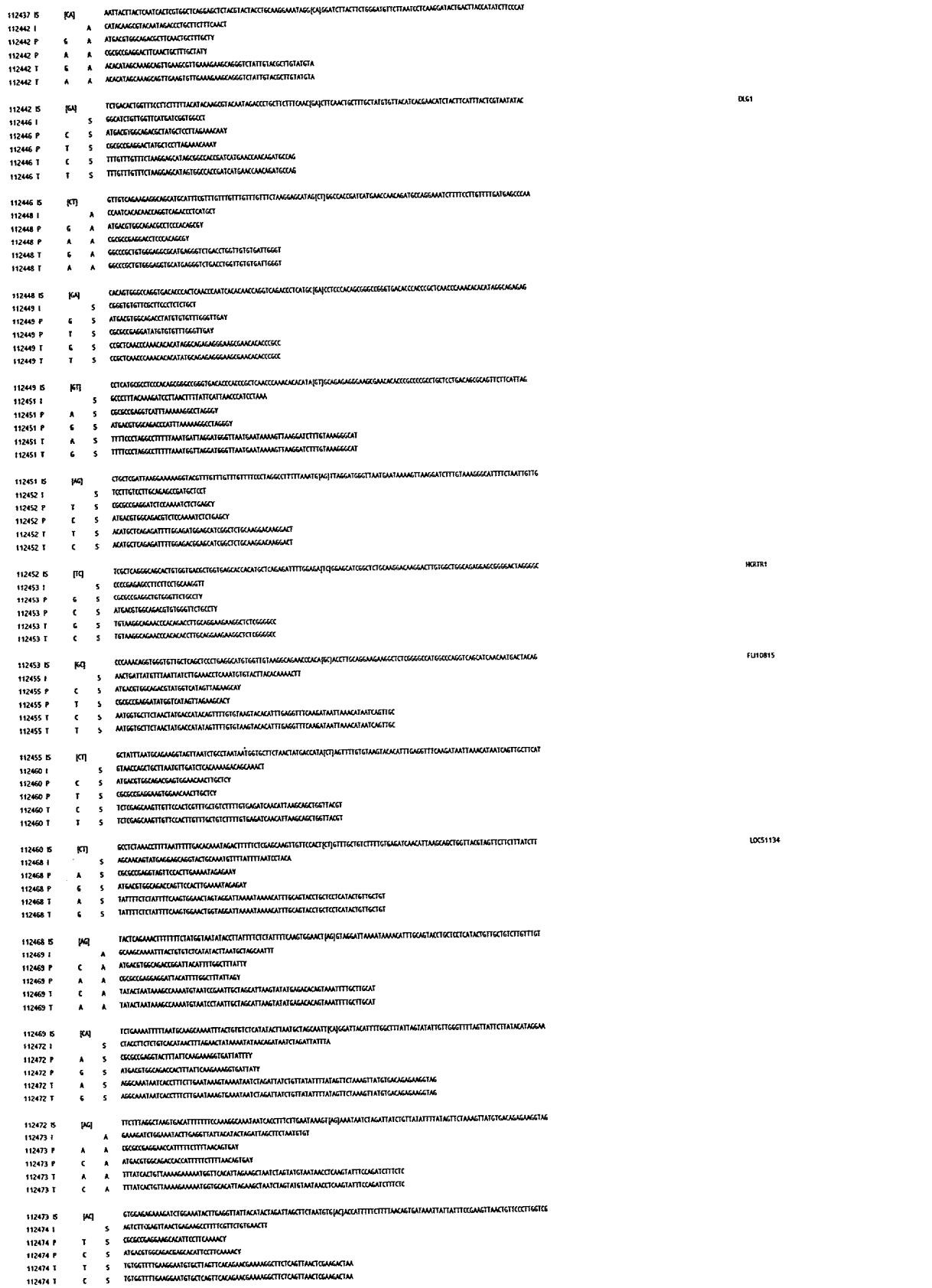
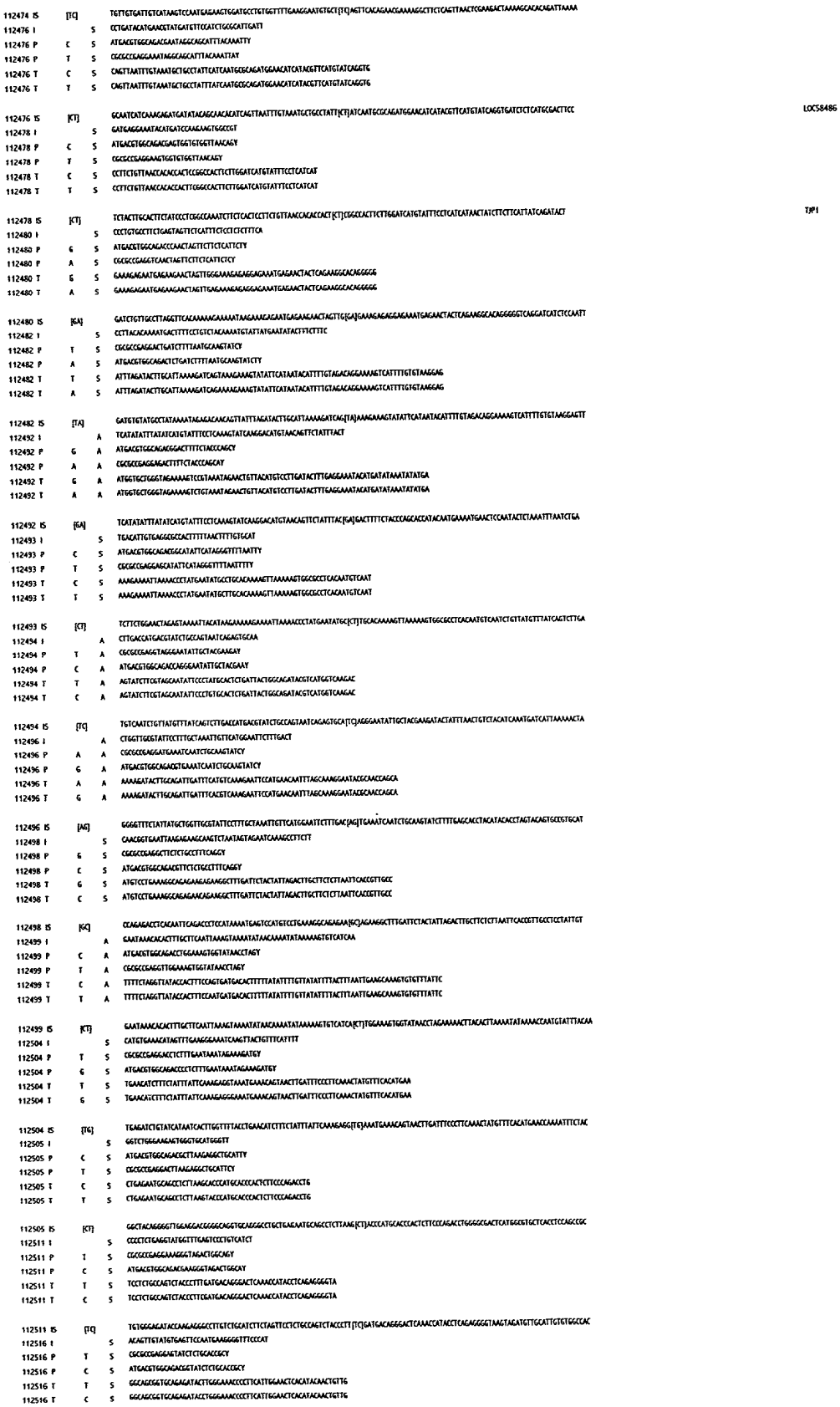
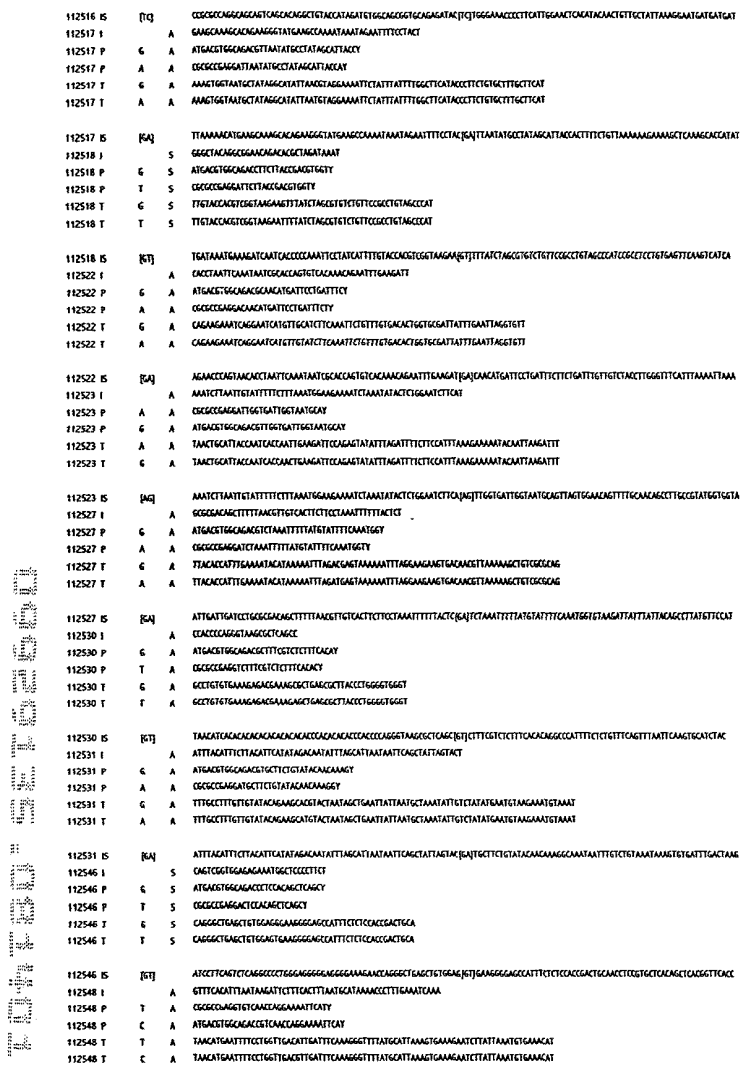

DLG1
HCRTR1
FLJ10815
LOC51134

FIGURE 129G





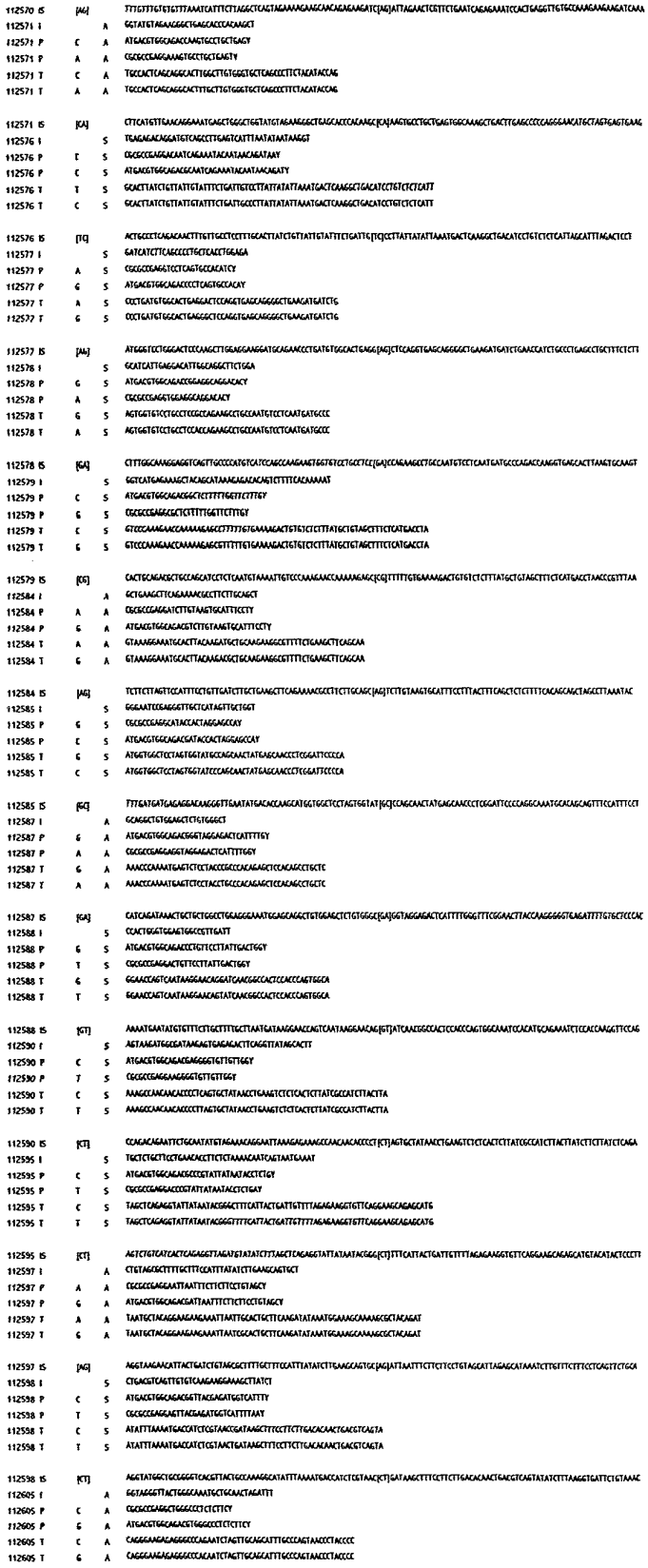
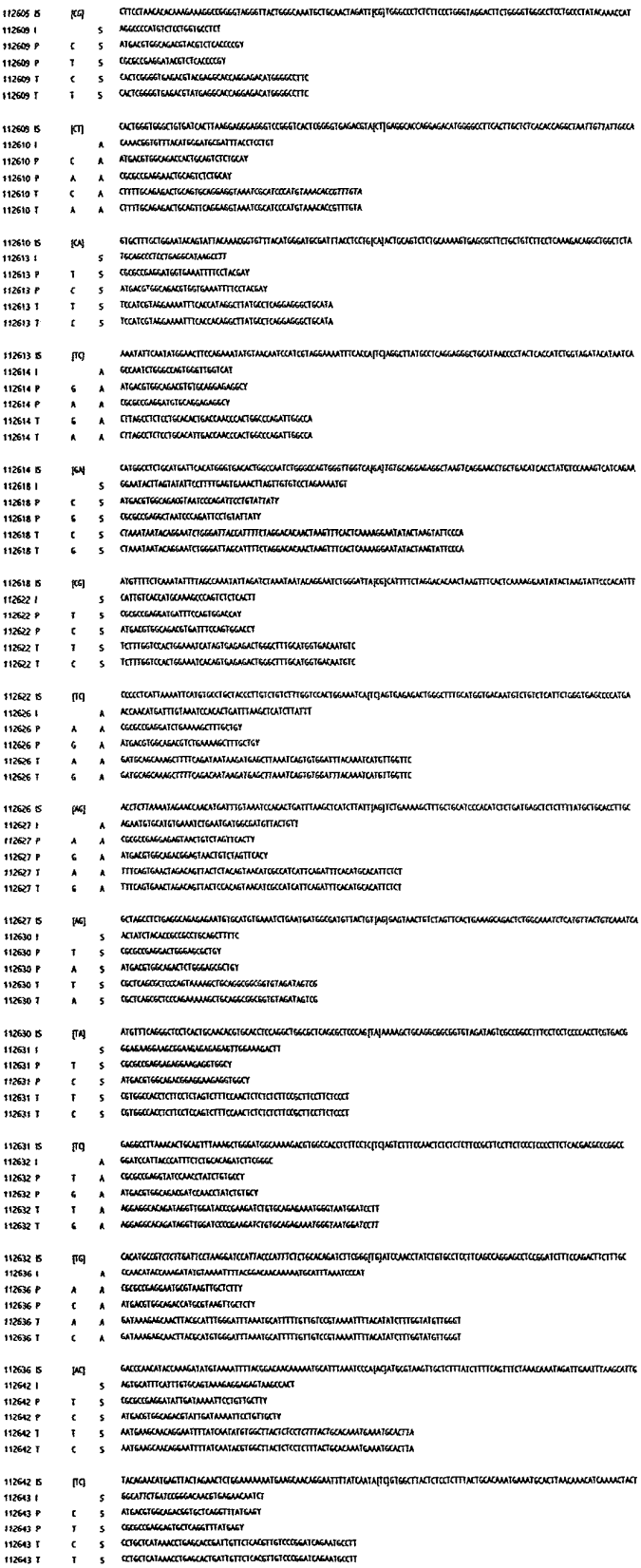
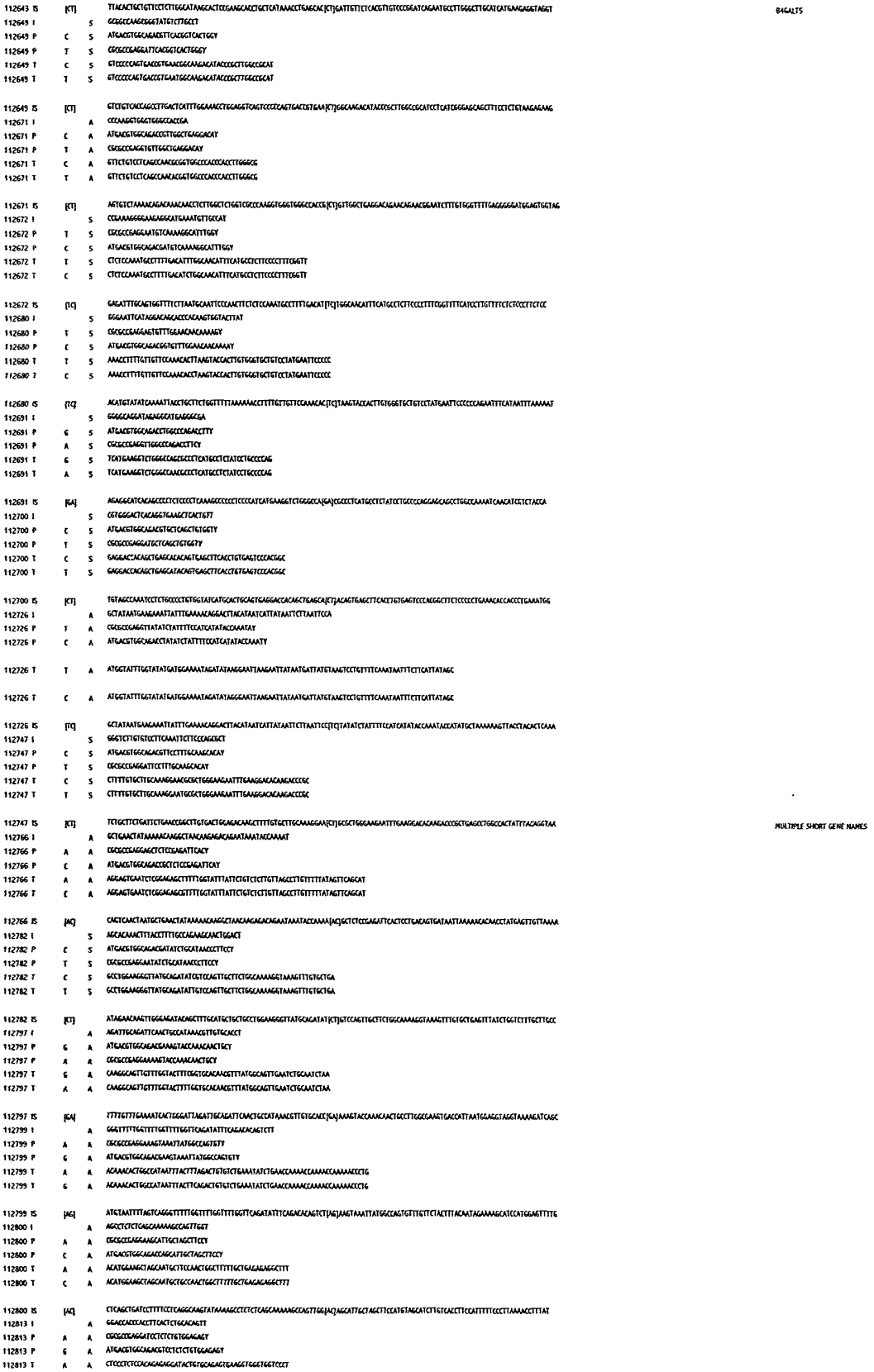


FIGURE 129G


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112609 P C S ATGACGTGGCAGACGTACGTCTCACCCCGY
112609 P T S CGCGCCGAGGATACGTCTCACCCCGY
112609 T C S CACTCGGGGTGAGACGTACGAGGCACCAGGAGACATGGGGCCTTC
112609 T T S CACTCGGGGTGAGACGTATGAGGCACCAGGAGACATGGGGCCTTC
112609 IS [CT] CACTGGGTGGGCTGTGATCACTTAAGGAGAGGGAGGGTCCGGGTCACTCGGGGTGAGACGTA[CT]GAGGCACCAGGAGACATGGGGGCCTTCACTTGCTCTCACACCAGGCTAATTGTTATTGCCA
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112610 P C A ATGACGTGGCAGACCACTGCAGTCTCTGCAY
112610 P A A CGCGCCGAGGAACTGCAGTCTCTGCAY
112610 T C A CTTTTGCAGAGACTGCAGTGCAGGAGGTAAATCGCATCCCATGTAAACACCGTTTGTA
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112613 I S TGCAGCCCTCCTGAGGCATAAGCCTT
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112630 T T S CGCTCAGCGCTCCCAGTAAAAGCTGCAGGCGCGGCGGTGTAGATAGTCG
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112631 P T S CGCGCCGAGGAGAGGAAGAGGTGGCY
112631 P C S ATGACGTGGCAGACGGAGGAAGAGGTGGCY
112631 T T S CGTGGCCACCTCTTCCTCTAGTCTTCCAACTCTCTCCTTCCGCTTCCTTCTCCCT
112631 T C S CGTGGCCACCTCTTCCTCAGTCTTCCAACTCTCTCCTTCCGCTTCCTTCTCCCT
112631 IS [TC] GAGGCCTTAAACACTGCAGTTTAAAGCTGGGATGGCAAAAGACGTGGCCACCTCTTCCTC[TC]AGTCTTTCCAACTCTCTCCTTCCGCTTCCTTCTCCCTCCCCTTCTCACGACGCCCGGCC
112632 I A GGATCCATTACCCATTTCTCTGCACAGATCTTCGGGC
112632 P T A CGCGCCGAGGTATCCAACCTATCTGTGCCY
112632 P G A ATGACGTGGCAGACGATCCAACCTATCTGTGCY
112632 T T A AGGAGGCACAGATAGGTTGGATACCCGAAGATCTGTGCAGAGAAATGGGTAATGGATCCTT
112632 T G A AGGAGGCACAGATAGGTTGGATCCCCGAAGATCTGTGCAGAGAAATGGGTAATGGATCCTT
112632 IS [TG] CACATGCCGTCTCTTGATTCCTAAGGATCCATTACCCATTTCTCTGCACAGATCTTCGGG[TG]ATCCAACCTATCTGTGCCTCCTTCAGCCAGGAGCCTCCGGATCTTTCCAGACTTCTTGC
112636 I A CCAACATACCAAAGATATGTAAAATTTTACGGACAACAAAAATGCATTTAAATCCCAACATGCGTAAGTTGCTCTTTATCTTTTCAGTTTCTAAACAAATAGATTGAATTTAAGCATTG
112636 P A A CGCGCCGAGGAATGCGGTAAGTTGCTCTTY
112636 P C A ATGACGTGGCAGACCATGCGTAAGTTGCTCTY
112636 T A A GATAAAGACAACTTACGCATGTGGGATTTAAATGCATTTTTGTTGTCCGTAAAATTTTACATATCTTTGGTATGTTGGGT
112636 T C A GATAAAGACAACTTACGCATGTGGGATTTAAATGCATTTTTGTTGTCCGTAAAATTTTACATATCTTTGGTATGTTGGGT
112636 IS [AC] GACCCAACATACCAAAGATATGTAAAATTTTACGGACAACAAAAATGCATTTAAATCCCAACATGCGTAAGTTGCTCTTTATCTTTTCAGTTTCTAAACAAATAGATTGAATTTAAGCATTG
112642 I S AGTGCATTTCATTTGTGCAGTAAAGAGGAGAGTAAGCCACT
112642 P T S CGCGCCGAGGATATTGATAAAATTCCTGTTGCTTY
112642 P C S ATGACGTGGCAGACGTATTGATAAAATTCCTGTTGCTTY
112642 T T S AATGAAGCAACAGGAATTTTATCAATATGTGGCTTACTCTCCTCTTTACTGCACAAATGAAATGCACTTA
112642 T C S AATGAAGCAACAGGAATTTTATCAATACGTGGCTTACTCTCCTCTTTACTGCACAAATGAAATGCACTTA
112642 IS [TC] TACAGAACATGAGTTACTAGAACTCTGGAAAAAAATGAAGCAACAGGAATTTTATCAATA[TC]GTGGCTTACTCTCCTCTTTACTGCACAAATGAAATGCACTTAACAAACATCAAAACTACT
112643 I S GGCATTCTGATCCGGGCAACAGCTGAGAACAATCT
112643 P C S ATGACGTGGCAGACGGTGCTCAGGTTTATGAGY
112643 P T S CGCGCCGAGGAGTGCTCAGGTTTATGAGY
112643 T C S CCTGCTCATAAACCTGAGCACCGATTGTTCTCACGTTGTCCCGGATCAGAATGCCTT
112643 T T S CCTGCTCATAAACCTGAGCACTGATTGTTCTCACGTTGTCCCGGATCAGAATGCCTT


B4GALT5
MULTIPLE SHORT GENE NAMES

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112813 T    G    A   CTCCCTCTCCAAAGAGAGGAACACTGTGCAGAGTCAAGGTGGGTGGTCCCT

112813 IS   [AG]      TGGGTCTCAAGGGGAGGCCAGAAAGACTGGGAGAGCACCACCCACCTTCACTCTGCACAGT[AG]TCCTCTCTGTGGAAGAGGGAGGCACATGGCAGTCCAACCATATTGGGCTGGTCAGTGGCCG
112815 I         S   GAGACACCAAATGAGAGACTCAGAAGAGCACCATCAT
112815 P    C    S   ATGACGTGGGCAGACGGAAGTTACTTTTCACAGGAY
112815 P    T    S   CGCGCCGAGGAGAAGTTACTTTTCACAGGAAAT
112815 T    C    S   TATCTTTCCTGTGAAAAGTAACTTCCTGATGGTGCTCTCTGAGTCTCTCATTTGGTGTCTCCT
112815 T    T    S   TATCTTTCCTGTGAAAAGTAACTTCTGATGGTGCTCTCTGAGTCTCTCATTTGGTGTCTCCT

112815 IS   [CT]      CCAGGAGGAACCGCTCCTTAACTTGCCAGTTTGATGTATCTTTCCTGTGAAAAGTAACTTC[CT]TGATGGTGCTCTCTGAGTCTCTCATTTGGTGTCTCCTGGCATAAGCTTTCTGGGCAATC
112831 I         S   AGGTGAGGCCTCTCACACTGGGGCT
112831 P    C    S   ATGACGTGGGCAGACGGCTCAGGGTGGGY
112831 P    T    S   CGCGCCGAGGAGCTCAGGGTGGGTY
112831 T    C    S   CCACACCCACCCTGAGCTGCCCCGTGTGAGAGGCCTCACCTGT
112831 T    T    S   CCACACCCACCCTGAGCTGCCCCGTGTGAGAGGCCTCACCTGT

112831 IS   [CT]      GGACAGGAGGGAAATGAAGGCTGGATGAAGCTTGGCCTCAGCCCCACACCCACCCTGAGC[CT]GCCCCGTGTGAGAGGCCTCACCTGTAGGGAGAAGGCTGCAGCGCAGGCATGGGAACGAG
112837 I         S   TGGTATGCTCTTAAGCTTCCTATACAAAGAATGTATCTAATTTGATATGTT
112837 P    C    S   ATGACGTGGCAGACGCAGATTTCTCATTCGTCTAY
112837 P    T    S   CGCGCCGAGGAGCAGATTTCTCATTCGTCTATTATY
112837 T    C    S   TTTGATAATAGAGCAATGAGAAATCTGCACATATCAAATTAGATACATTCTTTGTATAGGAAGCTTAAGAGCATACCATT
112837 T    T    S   TTTGATAATAGAGCAATGAGAAATCTGTACATATCAAATTAGATACATTCTTTGTATAGGAAGCTTAAGAGCATACCATT

112837 IS   [CT]      GCTCTTGACATCTTATTTCTTGGGCAGAAGGGTTTGATAATAGACGAATGAGAAATCTG[CT]ACATATCAAATTAGATACATTCTTTGTATAGGAAGCTTAAGAGCATACCATTGACAAAAT
112845 I         S   GATCCCATCCTCCTCCTTCATACCCACCTCTGA
112845 P    A    S   CGCGCCGAGGTTGAAGAACATGTAACGTACTAY
112845 P    G    S   ATGACGTGGCAGACCTGAAGAACATGTAACGTACTY
112845 T    A    S   GCAGTAGTACGTTACATGTTCTTCAACAGAGGTGGGTATGAAGGAGGAAGGATGGGATCTG
112845 T    G    S   GCAGTAGTACGTTACATGTTCTTCAGCAGAGGTGGGTATGAAGGAGGAAGGATGGGATCTG

112845 IS   [AG]      TGAGTGGTCATCCTTTCAAAATTTTTACTAAGATGGCAGTAGTACGTTACATGTTCTTCA[AG]CAGAGGTGGGTATGAAGGAGGAAGGATGGGATCTGATTGCCTTTGTGGTATAAAGGTTGGG
112867 I         S   CAGCAGAGGAGTAACCCCAGTGTCGGA
112867 P    G    S   ATGACGTGGCAGACCTCCAAAGCCAAAATCTATAGY
112867 P    A    S   CGCGCCGAGGTTCAAAGCCAAAATCTATAGGY
112867 T    G    S   TCTTCCTATAGATTTTGGCTTTGGAGCCGACACTGGGGTTACGTCCTCTGCTGAT
112867 T    A    S   TCTTCCTATAGATTTTGGCTTTGGAGCCGACACTGGGGTTACGTCCTCTGCTGAT

112867 IS   [GA]      TACTTTGTAATTGGGGACTCATATAATAACATTTCTTCTTCCCATAGATTTTGGCTTTGGA[GA]CCGACACTGGGGTTACGTCCTCTGCTGATGTGGATTCAGGTTCTGGCCATCATCAGAGTG
112870 I         A   CCTTGTGGTAAAAGTAAAAATTCAGTTCTCTAAGAAATTTTCAGAGAAGT
112870 P    G    A   ATGACGTGGCAGACGCAGTAAGTCTGAATCCAGY
112870 P    A    A   CGCGCCGAGGACAGTAAGTCTGAATCCAGAY
112870 T    G    A   GGTCTCTGGATTCAGACTTACTGCCTCTCTCTAAAATTTCTTAGAGAACTGAATTTTTACTTTTACCACAAGGCA
112870 T    A    A   GGTCTCTGGATTCAGACTTACTGTCTCTCTGAAAATTTCTTAGAGAACTGAATTTTTACTTTTACCACAAGGCA

112870 IS   [GA]      CCTCTCTAGTGCCTTGTGGTAAAAGTAAAAATTCAGTTCTCTAAGAAATTTTCAGAGAAGT[GA]CAGTAAGTCTGAATCCAGAGACCATCTTGTATATTCAGTGAAAAGAGGAAAATTGTGTAG
112871 I         A   GGTGTAGTGGAGTAAGAAAGCTAGAAAAAGTTATTGGTGAGAGCGTTATT
112871 P    A    A   CGCGCCGAGGATGTCAGACTTTAAATTTTTAGTGGY
112871 P    G    A   ATGACGTGGCAGACGTGTCAGACTTTAAATTTTTAGTGY
112871 T    A    A   TTTACCACTAAAAATTTAAAGTCTGACATATAACGCTCTCACCAATAACTTTTCTAGCTTCTTACTCCACTACACCAG
112871 T    G    A   TTTACCACTAAAAATTTAAAGTCTGACACATAACGCTCTCACCAATAACTTTTCTAGCTTCTTACTCCACTACACCAG

112871 IS   [AG]      ATTGAAGAGCTGGTGTAGTGGAGTAAGAAAGCTAGAAAAAGTTATTGGTGAGAGCGTTAT[AG]TGTCAGACTTTAAATTTTTAGTGGTAAAACATTCTGGGAATTACTCAGTGATTGCATCTT
112873 I         S   TGAGGAGGTAAAGTCATTAAAGAAATTAATAGGTGATACTGCATTATAGCT
112873 P    G    S   ATGACGTGGCAGACCAAGAAAGATGAGAATTTGGAGY
112873 P    T    S   CGCGCCGAGGAAAGAAAAGATGAGAATTTGGAGY
112873 T    G    S   ATCCCTCCAAATTCTCATCTTTTCTTGGCTATAATGCAGTATCACCTATTAATTTCTTTAATGACTTTACCTCCTCAAA
112873 T    T    S   ATCCCTCCAAATTCTCATCTTTTCTTGCTATAATGCAGTATCACCTATTAATTTCTTTAATGACTTTACCTCCTCAAA

112873 IS   [GT]      AAAGAAGTGCCTGCAGGGTGGTGTTACATTTTAAATCCCTCCAAATTCTCATCTTTTCTTT[GT]GCTATAATGCAGTATCACCTATTAATTTCTTTAATGACTTTACCTCCTCAAATTTAGCTT
112874 I         A   CAGGACTGAGGTTAACCATGAGCACTGTCCCCTT
112874 P    G    A   ATGACGTGGCAGACGAAAGGTGGGGCTATGY
112874 P    A    A   CGCGCCCAGGAAAAGGTGGCGCTATGY
112874 T    G    A   CAATCATAGCGCCACCTTTCAGGGACAGTGCTCATGGTTAACCTCAGTCCTGCA
112874 T    A    A   CAATCATAGCGCCACCTTTTAGGGACAGTGCTCATGGTTAACCTCAGTCCTGCA

112874 IS   [GA]      TAAATGGCCCAACACTTCCATCAAATTGCAGGACTGAGGTTAACCATGAGCACTGTCCCT[GA]AAAGGTGGCGCTATGATTGTGTCTCCTTTGATACACCCTCAGGAGAACAGGTTGGTCA
112876 I         A   GAGTGGGTGGACACGTGCCAAAACTCCT
112876 P    A    A   CGCGCCGAGGATTAGTGTAAGGGACTTTAAATCAY
112876 P    G    A   ATGACGTGGCAGACGTTAGTGTAAGGGACTTTAAATCY
112876 T    A    A   TCTGTGATTTAAAGTCCCTTACACTAATGGAGTTTTGGCAGTGTCCACCCACTCCC
112876 T    G    A   TCTGTGATTTAAAGTCCCTTACACTAACGGAGTTTTGGCAGTGTCCACCCACTCCC

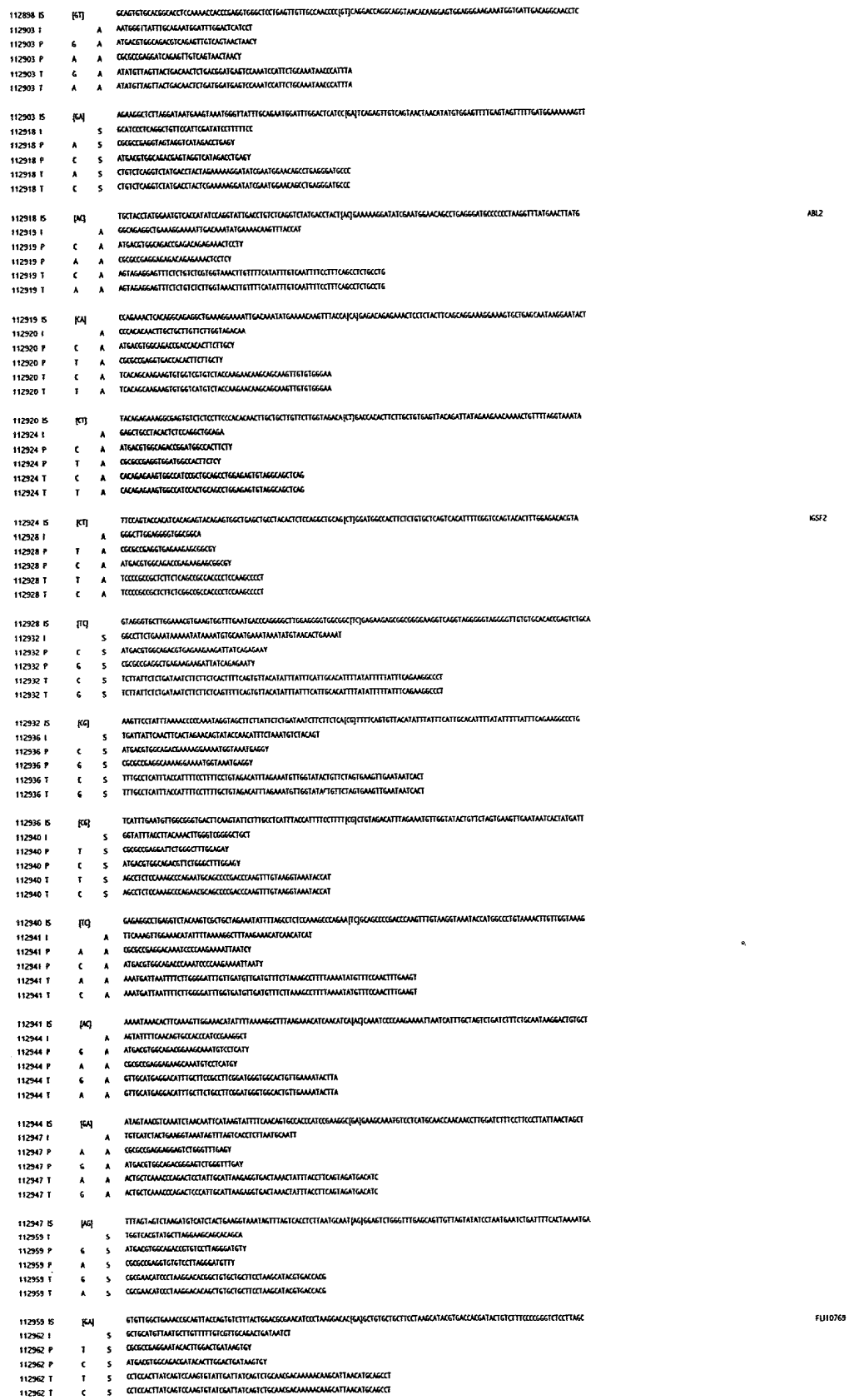
112876 IS   [AG]      GGATTGTGAGGTACTGGAAAGAAGTCCTATGGGGAGTGGGTGGACAGGTGCCAAAACTCC[AG]TTAGTGTAAGGGACTTTAAATCACAGAAATTAACTTGCTGGAAATCTGTTCCCAATTCTT
112885 I         S   GAGACTCCAAGCTGAATAGCCAGAAAGAAATAAATGCTTTAGAATTCTCAA
112885 P    G    S   ATGACGTGGCAGACCGCTAAGCAAGTAGGGTY
112885 P    A    S   CGCGCCGAGGTGCTAAGCAAGTAGGGTY
112885 T    G    S   ATTAACCCTACTTGCTTAGCGTGAGAATTCTAAAGCATTTATTTCTTTCTGGCTATTCAGCTTGGAGTCTCCT
112885 T    A    S   ATTAACCCTACTTGCTTAGCATGAGAATTCTAAAGCATTTATTTCTTTCTGGCTATTCAGCTTGGAGTCTCCT

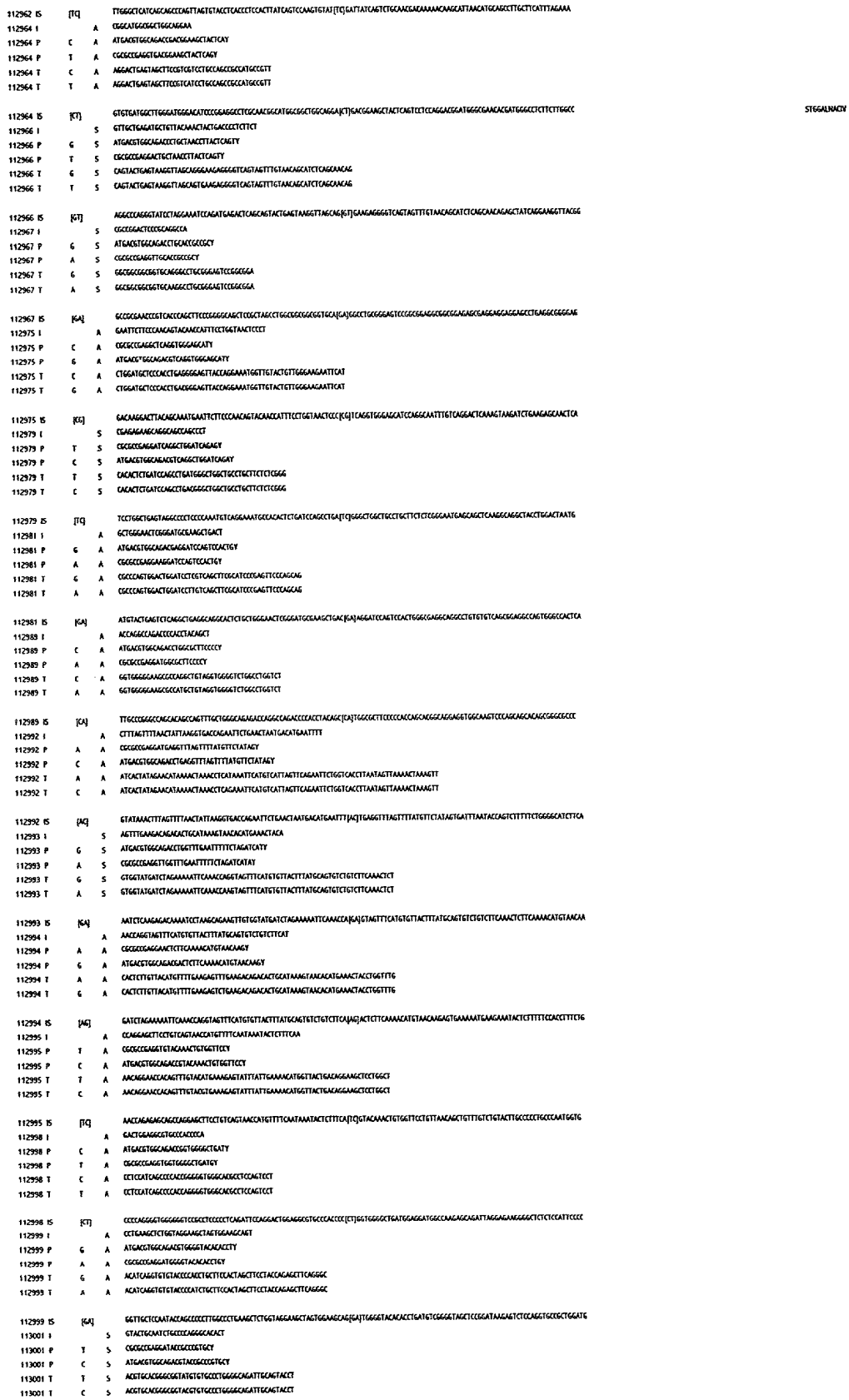
112885 IS   [GA]      ACAACAAAGAGCACCACAGAGTAGAAACCACCAGCAGAAATTAACCCTACTTGCTTAGC[GA]TGAGAATTCTAAAGCATTTATTTCTTTCTGGCTATTCAGCTTGGAGTCTCCTTCTATCCA
112887 I         A   GCACAGGAGGTTTGGGGACATCAAATCAGTCTCT
112887 P    C    A   ATGACGTGGCAGACCACTCCCAACATCCCCY
112887 P    A    A   CGCGCCGAGGAACTCCCAACATCCCCY
112887 T    C    A   GCTTGGGGATGTTGGGAGTGGAGACTGATTTGATGTCCCCAAACCTCCTGTGCCA
112887 T    A    A   GCTTGGGGATGTTGGGAGTTGAGACTGATTTGATGTCCCCAAACCTCCTGTGCCA

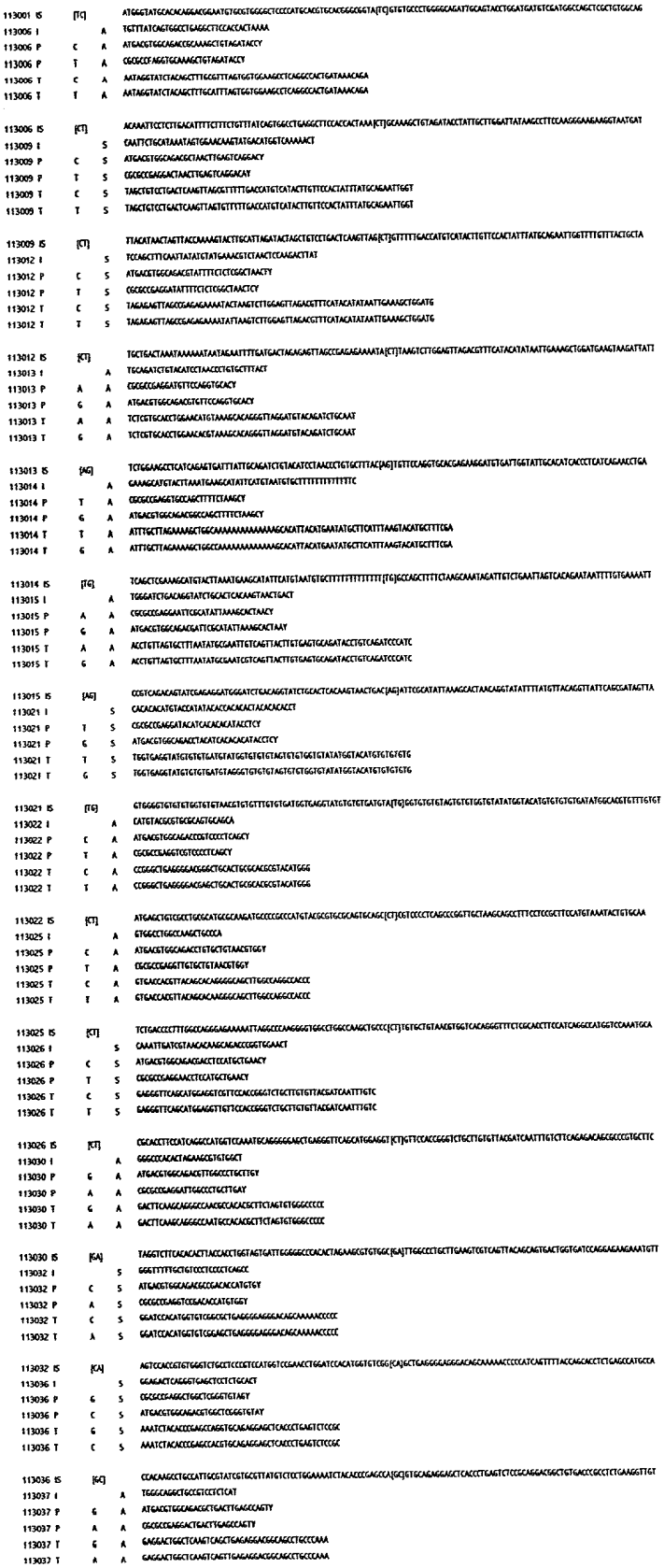
112887 IS   [CA]      CTCCCCTCTGCAACCCACAATTGCTCCTGGCAACAGGAGGTTTGGGGACATCAAATCAGTCTC[CA]ACTCCCAACATCCCCAAGCCCCCCTGATCACTCTCATCTGAAGCACAAGTGGGGCATCG
112894 I         A   CCAAAAAGCTTATCTCTTTCAGAAGAGGCACGCA
112894 P    C    A   ATGACGTGGCAGACCGCAGAAGTACTTCTTCCY
112894 P    T    A   CGCGCCGAGGTGCAGAAGTACTTCTTCCTY
112894 T    C    A   GTGTAGGAAGAAGTACTTCTGCGGCGTGCCTCTCTCTGAAACAGATAAGCTTTTTGGAT
112894 T    T    A   GTGTAGGAAGAAGTACTTCTGCAGCGTGCCTCTCTCTGAAACAGATAAGCTTTTTGGAT

112894 IS   [CT]      TTCATGTCCTAAAAACCTTTTACTAATCCAAAAAGCTTATCTCTTTCAGAAGAGGCACGCG[CT]GCAGAAGTACTTCTTCCTACACTCAAATGCAAAAAAAAAGTCATCTTTTTACACATGGCA
112898 I         S   CCACTCCTTGTGTTACCTGCCTGGTCCTGT
112898 P    G    S   ATGACGTGGCAGACCGGGGTTGGCAACY
112898 P    T    S   CGCGCCGAGGAGGGGTTGGCAACAY
112898 T    G    S   GAGTTGTTGCCAACCCCGCAGGACCAGGCAGGTAACACAAGGAGTGGAG
112898 T    T    S   GAGTTGTTGCCAACCCCTCAGGACCAGGCAGGTAACACAAGGAGTGGAG
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FIGURE 129G




112962 IS [TC] TTGGGCTCATCAGCAGCCCAGTTAGTGTACCTCACCCTCCACTTATCAGTCCAAGTGTAT[TC]GATTATCAGTCTGCAACGACAAAAACAAGCATTAACATGCAGCCTTGCTTCATTTAGAAA
112964 I A CGGCATGGGGCTGGCAGGAA
112964 P C A ATGACGTGGCAGACCGACGGAAGCTACTCAY
112964 P T A CGCGCCGAGGTGACGGAAGCTACTCAGY
112964 T C A AGGACTGAGTAGCTTCCGTGTCCTGCCAGCCGCCATGCCGTT
112964 T T A AGGACTGAGTAGCTTCCGTCATCCTGCCAGCCGCCATGCCGTT
112964 IS [CT] GTGTGATGGCTTGGGATGGGCACATCCCGGAGGCCTCGCAACGGCATGGCGGCTGGCAGGA[CT]GACGGAAGCTACTCAGTCCTCCAGGACGGATGGGCGAACACGATGGGCCTCTTCTTGGCC STGGALNACN
112966 I S GTTGCTGAGATGCTGTTACAAACTACTGACCCCTCTTCT
112966 P G S ATGACGTGGCAGACCCTGCTAACCTTACTCAGTY
112966 P T S CGCGCCGAGGACTGCTAACCTTACTCAGTY
112966 T G S CAGTACTGAGTAAGGTTAGCAGGGAAGAGGGGTCAGTAGTTTGTAACAGCATCTCAGCAACAG
112966 T T S CAGTACTGAGTAAGGTTAGCAGTGAAGAGGGGTCAGTAGTTTGTAACAGCATCTCAGCAACAG
112966 IS [GT] AGGCCCAGGGTATCCTAGGAAATCCAGATGAGACTCAGCAGTACTGAGTAAGGTTAGCAG[GT]GAAGAGGGGTCAGTAGTTTGTAACAGCATCTCAGCAACAGAGCTATCAGGAAGGTTACGG
112967 I S CGCCGGACTCCCGCAGGCCA
112967 P G S ATGACGTGGCAGACCTGCACCGCGCY
112967 P A S CGCGCCGAGGTTGCACCGCCGCY
112967 T G S GGCGGCGGCGGTGCAGGGCCTGCGGGAGTCCGGCGGA
112967 T A S GGCGGCGGCGGTGCAAGGCCTGCGGGAGTCCGGCGGA
112967 IS [GA] GCCGCGAACCCGTCACCCAGCTTCCCGGGGCAGCTCCGCTAGCCTGGCGGCGGCGGGTGCA[GA]GGGCTGCGGGAGTCCGCCGGAGCGCGGCGAGAGCGAGGAGCGAGCCTGAGGCGGGGAG
112975 I A GAATTCTTCCCAACAGTACAACCATTTCCTGGTAACTCCCT
112975 P C A CGCGCCCAGGCTCAGGTGGGAGCATY
112975 P G A ATGACGTGGCAGACGTCAGGTGGGAGCATY
112975 T C A CTGGATGCTCCCACCTGAGGGGAGTTACCAGGAAATGGTTGTACTGTTGGGAAGAATTCAT
112975 T G A CTGGATGCTCCCACCTGAGGGGAGTTACCAGGAAATGGTTGTACTGTTGGGAAGAATTCAT
112975 IS [CG] GACAAGGACTTACAGCAAATGAATTCTTCCCAACAGTACAACCATTTCCTGGTAACTCCC[CG]TCAGGTGGGAGCATCCAGGCAATTTGTCAGGACTCAAAGTAAGATCTGAAGAGCAACTCA
112979 I S CGAGAGAAGCAGGCAGCCAGCCCT
112979 P T S CGCGCCGAGGATCAGGCTGGATCAGAGY
112979 P C S ATGACGTGGCAGACGTCAGGCTGGATCAGAGY
112979 T T S CACACTCTGATCCAGCCTGATGGGCTGGCTGCCTGCTTCTCTCGGG
112979 T C S CACACTCTGATCCAGCCTGAGGGGCTGGCTGCCTGCTTCTCTCGGG
112979 IS [TC] TCCTGGCTGAGTAGGCCCCTCCCCAAATGTCAGGAAATGCCACACTCTGATCCAGCCTGA[TC]GGGCTGGCTGCCTGCTTCTCTCGGGAATGAGCAGCTCAAGGCAGGCTACCTGGACTAATG
112981 I A GCTGGGAACTGGGGATGCCAAGCTGACT
112981 P G A ATGACGTGGCAGACGAGGATCCAGTCCACTGY
112981 P A A CGGCCCGAGGAAGGATCCAGTCCACTGY
112981 T G A CGCCCAGTGGACTGGATCCTCGTCAGCTTCGCATCCCGAGTTCCCAGCAG
112981 T A A CGCCCAGTGGACTGGATCCTTGTCAGCTTCGCATCCCGAGTTCCCAGCAG
112981 IS [GA] ATGTACTGAGTCTCAGGCTGAGGCAGGCAACTCTGCTGGGAACTCGGGATGCGAAGCTGAC[GA]AGGATCCAGTCCACTGGGCGAGGCAGGCCTGTGTGTCAGCGCAGGCCAGTGGGCCACTCA
112989 I A ACCAGGCCAGACCCCACCTACAGCT
112989 P C A ATGACGTGGCAGACCTGGCGCTTCCCCY
112989 P A A CGCGCCGAGGATGGGCGTTCCCCY
112989 T C A GGTGGGGCAAGCCCCAGGCTGTAGGTGGGGTCTGGCCTGGTCT
112989 T A A GGTGGGGCAAGCGCCATGCTGTAGGTGGGGTCTGGCCTGGTCT
112989 IS [CA] TTGCCGGGCCAGCAGCAGCCAGTTTGCTGGGGCAGAGACCAGGCCAGACCCCCACCTACAGC[CA]TGGCGCTTCCCCCACCAGCAGGGCAGGAGGTGGCAAGTCCCAGCAGCACAGCGGGGCCC
112992 I A CTTTAGTTTTAACTATTAAGGTGACCAGAATTCTGAACTAATGACATGAATTTT
112992 P A A CGCGCCGAGGATGAGGTTTAGTTTTATGTTCTATACY
112992 P C A ATGACGTGGCAGAECTGAGGTTTAGTTTTATGTTCTATACY
112992 T A A ATCACTATAGAACATAAAACTAAACCTCATAAATTCATGTCATTAGTTCAGAATTCTGGTCACCTTAATAGTTAAAACTAAAGTT
112992 T C A ATCACTATAGAACATAAAACTAAACCTCAGAAATTCATGTCATTAGTTCAGAATTCTGGTCACCTTAATAGTTAAAACTAAAGTT
112992 IS [AC] GTATAAACTTTAGTTTTAACTATTAAGGTGACCAGAATTCTGAACTAATGACATGAATTT[AC]TGAGGTTTAGTTTTATGTTCTATAGTGATTTAATACCAGTCTTTTTCTGGGGCATCTTCA
112993 I S AGTTTGAAGACAGACACTGCATAAAGTAACACATGAAACTACA
112993 P G S ATGACGTGGCAGACCTGGTTTGAATTTTTCTAGATCATY
112993 P A S CGGCCCGAGGTTGGTTTGAATTTTCTAGATCATAY
112993 T G S GTGGTATGATCTAGAAAAATTCAAACCAGGTAGTTTCATGTGTTACTTTATGCAGTGTCTGTCTTCAAACTCT
112993 T A S GTGGTATGATCTAGAAAAATTCAAACCAAGTAGTTTCATGTGTTACTTTATGCAGTGTCTGTCTTCAAACTCT
112993 IS [GA] AATCTCAAGAGACAAAATCCTAAGCAGAAGTTGTGGTATGATCTAGAAAAATTCAAACCA[GA]GTAGTTTCATGTGTTACTTTATGCAGTGTCTGTCTTCAAACTCTTCAAAACATGTAACAA
112994 I A AACAGGTAGTTTCATGTGTTACTTTATGCAGTGTCTGTCTTCAT
112994 P A A CGCGCCGAGGAACTCTTCAAAACATGTAACAAGY
112994 P G A ATGACGTGGCAGACGACTCTTCAAAACATGTAACAAGY
112994 T A A CACTCTTGTTACATGTTTTGAAGAGTTTGAAGACAGACACTGCATAAAGTAACACATGAAACTACCTGGTTTG
112994 T G A CACTCTTGTTACATGTTTTGAAGAGTCTGAAGACAGACACTGCATAAAGTAACACATGAAACTACCTGGTTTG
112994 IS [AG] GATCTAGAAAAATTCAAACCAGGTAGTTTCATGTGTTACTTTATGCAGTGTCTGTCTTCA[AG]ACTCTTCAAAACATGTAACAAGAGTGAAAAATGAAGAAATACTCTTTTTCCACCTTTCTG
112995 I A CCAGGAGCTTCCTGTCAGTAACCATGTTTCAATAAATACTCTTTCAA
112995 P T A CGCGCCGAGGTGTACAAACTGTGGTTCCY
112995 P C A ATGACGTGGCAGACCGTACAAACTGTGGTTCCY
112995 T T A AACAGGAACCACAGTTTGTACATGAAAGAGTATTTATTGAAAACATGGTTACTGACAGGAAGCTCCTGGCT
112995 T C A AACAGGAACCACAGTTTGTACGTGAAAGAGTATTTATTGAAAACATGGTTACTGACAGGAAGCTCCTGGCT
112995 IS [TC] AACCAGAGAGCAGCCAGGAGCTTCCTGTCAGTAACCATGTTTCAATAAATACTCTTTCA[TC]GTACAAACTGTGGTTCCTGTTAACAGCTGTTTGTCTGTACTTGCCCCCTGCCCAATGGTG
112998 I A GACTGGAGGCGTGCCCACCCCA
112998 P C A ATGACGTGGCAGACCGGTGGGGCTGATY
112998 P T A CGCGCCGAGGTGGTGGGGCTGATGY
112998 T C A CCTCCATCAGCCCCACCGGGGGTGGGCAGCCTCCAGTCCT
112998 T T A CCTCCATCAGCCCCACCAGGGGTGGGCAGCCTCCAGTCCT
112998 IS [CT] CCCCAGGGGTGGGGGGTCCGCCTCCCCCTCAGATTCCAGGAACTGGAGGGGTGCCCACCCC[CT]GGTGGGGCTGATGGAGGATGGCCAAGAGCAGATTAGGAGAAGGGGCTCTCTCCATTCCCC
112999 I A CCTGAAGCTCTGGTAGGAAGCTAGTGGAAGCAGT
112999 P G A ATGACGTGGCAGACGTGGGGTACACACCTY
112999 P A A CGCGCCGAGGATGGGGTACACACCTGY
112999 T G A ACATCAGGTGTGTACCCCACCTGCTTCCACTAGCTTCCTACCAGAGCTTCAGGGC
112999 T A A ACATCAGGTGTGTACCCCATCTGCTTCCACTAGCTTCCTACCAGAGCTTCAGGGC
112999 IS [GA] GGTTGCTCCAATACCAGCCCCCTTGGCCCTGAAGCTCTGGTAGGAAGCTAGTGGAAGCAG[GA]TGGGGTACACACCTGATGTCGGGGTAGCTCCCGATAAGAGTCTCCAGGTGCCGCTGGATG
113001 I S GTACTGCAATCTGCCCCAGGGCACACT
113001 P T S CGCGCCGAGGATACCGCCCGTGCY
113001 P C S ATGACGTGGCAGACGTACCGCCCGTGCY
113001 T T S ACGTGCACGGGCGGTATGTGTGCCCTGGGGCAGATTGCAGTACCT
113001 T C S ACGTGCACGGGCGGTACGTGTGCCCTGGGGCAGATTGCAGTACCT


113001 IS [TC] ATGGGTATGCCACACAGGACGGAATGTGCGTGGGGCTCCCCATGCACGTGCACGGGCGGTA[TC]GTGTGCCCTGGGGCAGATTGCAGTACCTGGATGATGTCCATGGCCAGCTCGCTGTGGCAG
113006 I A TGTTTATCAGTGGCCTGAGGCTTCCACCACTAAAA
113006 P C A ATGACGTGGCAGACCGCAAAGCTGTAGATACCY
113006 P T A CGCGCCFAGGTGCAAAGCTGTAGATACCY
113006 T C A AATAGGTATCTACAGCTTTGCGTTAGTGGTGCAAGCCTCAGGCCACTGATAAACAGA
113006 T T A AATAGGTATCTACAGCTTTGCATTTAGTGGTGCAAGCCTCAGGCCACTGATAAACAGA

113006 IS [CT] ACAAATTCCTCTTGACATTTCTTTCTGTTTATCAGTGGCCTGAGGCTTCCACCACTAAA[CT]GCAAAGCTGTAGATACCTATTGCTTGGATTATAAGCCTTCCAAGGGAAGAAGGTAATGAT
113009 I S CAATTCTGCATAAATAGTGAACAAGTATGACATGGTCAAAAACT
113009 P C S ATGACGTGGCAGACGCTAACTTGAGTCAGGACY
113009 P T S CGCGCCGAGGACTAACTTGAGTCAGGACAY
113009 T C S TAGCTGTCCTGACTCAAGTTAGCGTTTTTGACCATGTCATACTTGTTCCACTATTTATGCAGAATTGGT
113009 T T S TAGCTGTCCTGACTCAAGTTAGTGTTTTTGACCATGTCATACTTGTTCCACTATTTATGCAGAATTGGT

113009 IS [CT] TTACATAACTAGTTACCAAAAGTACTTGCATTAGATACTAGCTGTCCTGACTCAAGTTAG[CT]GTTTTTGACCATGTCATACTTGTTCCACTATTTATGCAGAATTGGTTTTGTTTACTGCTA
113012 I S TCCAGCTTTCAATTATATGTATGAAACGTCTAACTCCAAGACTTAT
113012 P C S ATGACCTGGCAGACGTATTTCTCTCGGCTAACTY
113012 P T S CGCGCCGAGGATATTTTCTCTCGGCTAACTCY
113012 T C S TAGAGAGTTAGCCGACAGAAAAATACTAAGTCTTGGAGTTAGACGTTTCATACATATAATTGAAAGCTGGATG
113012 T T S TAGAGAGTTAGCCGACAGAAAAATATTAAGTCTTGGAGTTAGACGTTTCATACATATAATTGAAAGCTGGATG

113012 IS [CT] TGCTGACTAAATAAAAATAATAGAATTTTGATGACTAGAGAGTTAGCCGAGAGAAAATA[CT]TAAGTCTTGGAGTTAGACGTTTCATACATATAATTGAAAGCTGGATGAAGTAAGATTATT
113013 I A TGCAGATCTGTACATCCTAACCCTGTGCTTTACT
113013 P A A CGCGCCGAGGATGTTCCAGGTGCACY
113013 P G A ATGACGTGGCAGACGTGTTCCAGGTGCACY
113013 T A A TCTCGTGCACCTGGAACACGTAAAGCACAGGGTTAGGATGTACAGATCTGCAAT
113013 T G A TCTCGTGCACCTGGAACACGTAAAGCACAGGGTTAGGATGTACAGATCTGCAAT

113013 IS [AG] TCTGGAAGCCTCATCAGAGTGATTTATTGCAGATCTGTACATCCTAACCCTGTGCTTTAC[AG]TGTTCCAGGTGCACGAGAAGGATGTGATTGGTATTGCACATCACCCTCATCAGAACCTGA
113014 I A GAAAGCATCTACTTAAATGAAGCATATTCATGTAATGTGCTTTTTTTTTTTTTC
113014 P T A CGCGCCGAGGTGCCAGCTTTTCTAAGCY
113014 P G A ATGACGTGGCAGACGGCCAGCTTTTCTAAGCY
113014 T T A ATTTGCTTAGAAAAGCTGGCAAAAAAAAAAAAAAAGCACATTACATGAATATGCTTCATTTAAGTACATGCTTTCGA
113014 T G A ATTTGCTTAGAAAAGCTGGCAAAAAAAAAAAAAAGCACATTACATGAATATGCTTCATTTAAGTACATGCTTTCGA

113014 IS [TG] TCAGCTCGAAAGCATGTACTTAAATGAAGCATATTCATGTAATGTGCTTTTTTTTTTTT[TG]GCCAGCTTTTCTAAGCAAATAGATTGTCTGAATTAGTCACAGAATAATTTTGTGAAAATT
113015 I A TGGGATCTGACAGGTATCTGCACTCACAAGTAACTGACT
113015 P A A CGCGCCCAGGAATTCGCATATTAAAGCACTAACY
113015 P G A ATGACGTGGCAGACGATTCGCATATTAAAGCACTAAY
113015 T A A ACCTGTTAGTGCTTTAATATGCGAATTGTCAGTTACTTGTGAGTGCAGATACCTGTCAGATCCCATC
113015 T G A ACCTGTTAGTGCTTTAATATGCGAATCGTCAGTTACTTGTGAGTGCAGATACCTGTCAGATCCCATC

113015 IS [AG] CCGTCAGAGAGTATCGAGAGGATGGGATCTGACAGGTATCTGCACTCACAAGTAACTGAC[AG]ATTCGCATATTAAAGCACTAACAGGTATATTTTATGTTACAGGTTATTCAGCGATAGTTA
113021 I S CACACACATGTACCATATACACACACACACTACACACACCT
113021 P T S CGCGCCCAGGATACATCACACACATACCTCY
113021 P G S ATGACGTGGCAGACCTACATCACACACATACCTCY
113021 T T S TGGTGAGGTATGTGTGTGATGTATGGTGTGTGTAGTGTGTGGTGTATATGGTACATGTGTGTGTG
113021 T G S TGGTGAGGTATGTGTGTGATGTAGGGTGTGTGTAGTGTGTGGTGTATATGGTACATGTGTGTGTG

113021 IS [TG] GTGGGGTGTGTGTGGTGTGTAACGTGTGTTTGTGTGATGGTGAGGTATGTGTGTGATGTA[TG]GGTGTGTGTAGTGTGTGGTGTATATGGTACATGTGTGTGTGATATGGCAGGTGTTTGTGT
113022 I A CATGTACGCGTGCGCAGTGCAGCA
113022 P C A ATGACGTGGCAGACCGTCCCCTCAGCY
113022 P T A CGCGCCTAGGTGTCCCCTCAGCY
113022 T C A CCGGGCTGAGGGCACGGGCTGCACTGCGCACGCGTACATGGG
113022 T T A CCGGGCTGAGGGCACGAGCTGCACTGCGCACGCGTACATGGG

113022 IS [CT] ATGAGCTGTCGCCTGGGCATGCGCAAGATGCCCCGCCCATGTACGCGTGCGCAGTGCAGC[CT]CGTCCCCTCAGCCCGGTTGCTAAGCAGCCTTTCCTCCGCTTCCATGTAAATACTGTGCAA
113025 I A GTGGCCTGGCCAAGCTGCCCA
113025 P C A ATGACGTGGCAGACCTGTGCTGTAACGTGGY
113025 P T A CGCGCCGAGGTTGTGCTGTAACGTGGY
113025 T C A GTGACCACGTTACAGCACAGGGCAGCTTGGCCAGGCCACCC
113025 T T A GTGACCACGTTACAGCACAGGGCAGCTTGGCCAGGCCACCC

113025 IS [CT] TCTGACCCCTTTGGCCAGGGAGAAAAATTAGGCCCAAGGGGTGGCCTGGCCAAGCTGCCC[CT]TGTGCTGTAACGTGGTCACAGGGTTTCTCGCAACCTTCCATCAGGCCATGGTCCAAATGCA
113026 I S CAAATTGATCGTAACACAAGCAGACCGGTGGAACT
113026 P C S ATGACGTGGCAGACGCCGACACCATGTGY
113026 P T S CGCGCCCAGGAACCTCCATGCTGAACY
113026 T C S GAGGGTTCAGCATGGAGGTCGTTCCACCGGGTCTGCTTGTGTTACGATCAATTTGTC
113026 T T S GAGGGTTCAGCATGGAGGTTGTTCCACCGGGTCTGCTTGTGTTACGATCAATTTGTC

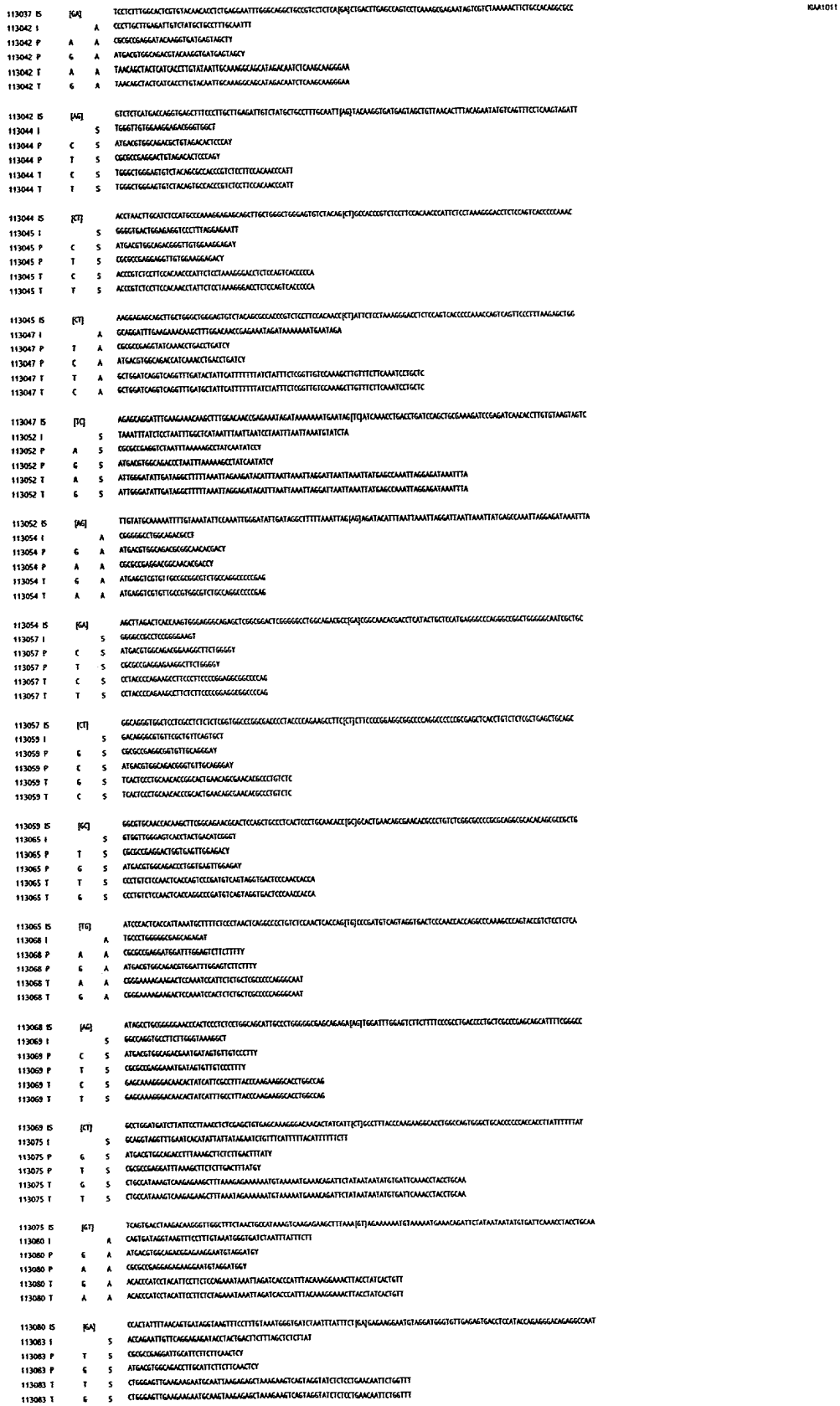
113026 IS [CT] CGCACCTTCCATCAGCCATGGTCCAAATGCAGAGGGGAGCTGAGGGTTCAGCATGGAGGT[CT]GTTCCACCGGGTCTGCTTGTGTTACGATCAATTTGTCTCAGAGACAGCGCCCGTGCTTC
113030 I A GGGCCCACACTAGAAGCGTGTGGCT
113030 P G A ATGACGTGGCAGACGTTGGCCCTGCTTGY
113030 P A A CGCGCCGAGGATTGGCCCTGCTTGAY
113030 T G A GACTTCAAGCAGGGCCAACGCCACACGCTTCTAGTGTGGGCCCCC
113030 T A A GACTTCAAGCAGGGCCAATGCCACACGCTTCTAGTGTGGGCCCCC

113030 IS [GA] TAGGTCTTCACACACTTACCACCTGGTAGTGATTGGGGGCCCACACTAGAAGCGTGTGGC[GA]TTGGCCCTGCTTGAAGTCGTCAGTTACAGCAGTGACTGGTGATCCAGGAGAAGAAGAAATGTT
113032 I S GGGTTTTTGCTGTCCCTCCCCTCAGCC
113032 P C S ATGACGTGGCAGACGCCGACACCATGTGY
113032 P A S CGCGCCGAGGTCCGACACCATGTGGY
113032 T C S GGATCCACATGGTGTCGGCGCTGAGGGGAGGGCACAGCAAAAACCCCC
113032 T A S GGATCCACATGGTGTCGGAGCTGAGGGGAGGGCACAGCAAAAACCCCC

113032 IS [CA] AGTCCACCGTGTGGGTCTGCCTCCCGTCCATGGTCCGAACCTGGATCCACATGGTGTCGG[CA]GCTGAGGGGAGGGCACAGCAAAAACCCCCATCAGTTTTACCAGCACCTCTGAGCCATGCCA
113036 I S GGAGACTCAGGGTGAGCTCCTCTGCACT
113036 P G S CGCGCCGAGGCTGGCTCGGGTGTAGY
113036 P C S ATGACGTGGCAGACGTGGCTCGGGTGTAY
113036 T G S AAATCTACACCCGAGCCAGGTGCAGAGGAGCTCACCCTGAGTCTCCGC
113036 T C S AAATCTACACCCGAGCCACGTGCAGAGGAGCTCACCCTGAGTCTCCGC

113036 IS [GC] CCACAAGCCTGCCATTGCGTATCGTGCGTTATGTCTCTGGAAAATCTACACCCGAGCCA[GC]GTGCAGAGGAGCTCACCCTGAGTCTCCGCAGGACGGCTGTGACCCGCCTCTGAAGGTTGT
113037 I A TGGGCAGGCTGCCGTCCTCTCAT
113037 P G A ATGACGTGGCAGACGTGACTTGAGCCAGTY
113037 P A A CGCGCCGAGGACTGACTTGAGCCAGTY
113037 T G A GAGGACTGGCTCAAGTCAGCTGAGAGGACGGCAGCCTGCCCAAA
113037 T A A GAGGACTGGCTCAAGTCAGTTGAGAGGACGGCAGCCTGCCCAAA

FIGURE 129G



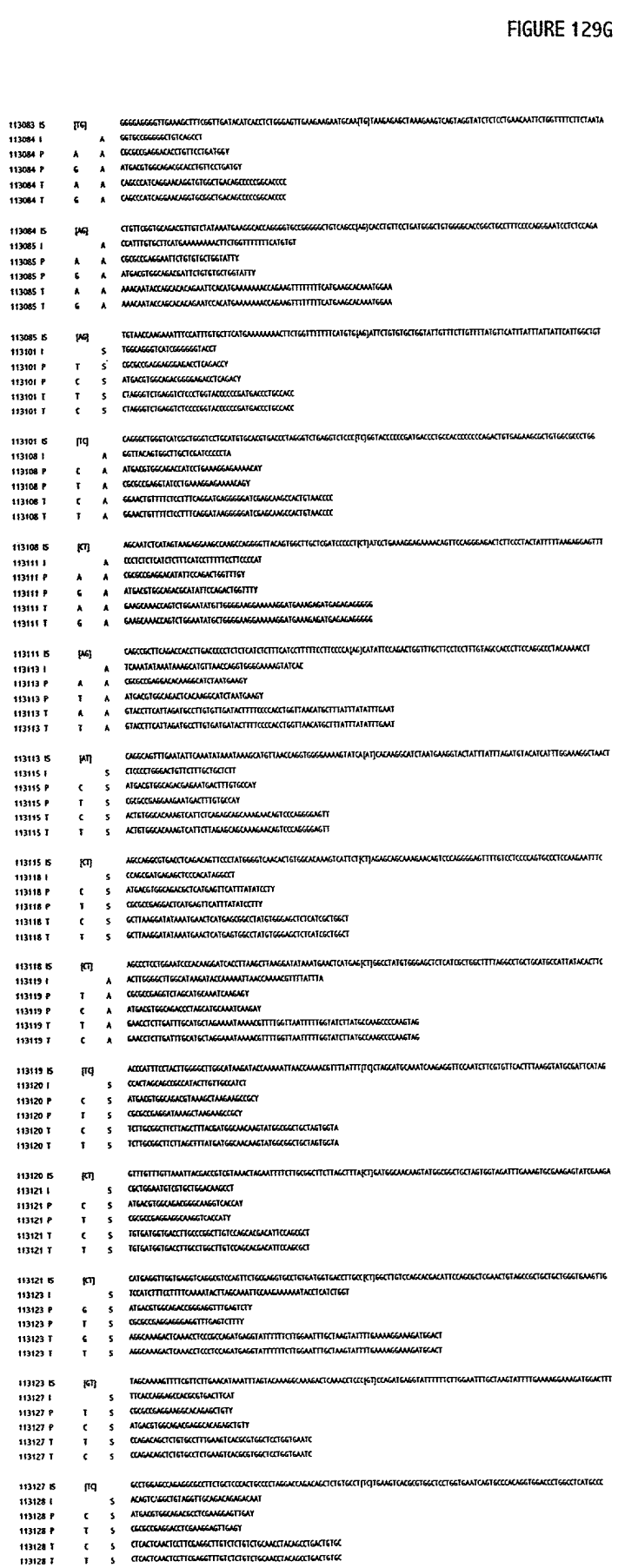
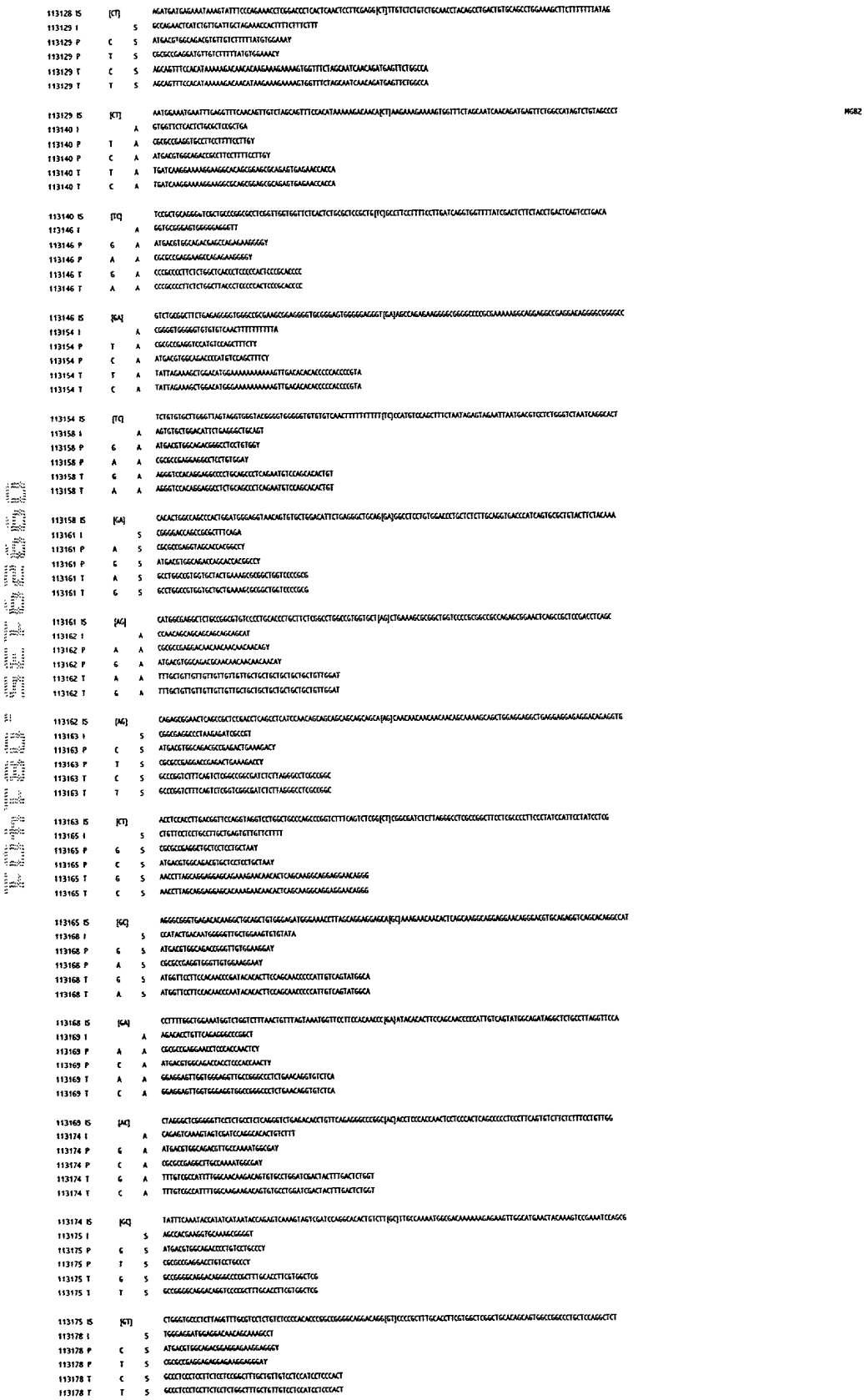
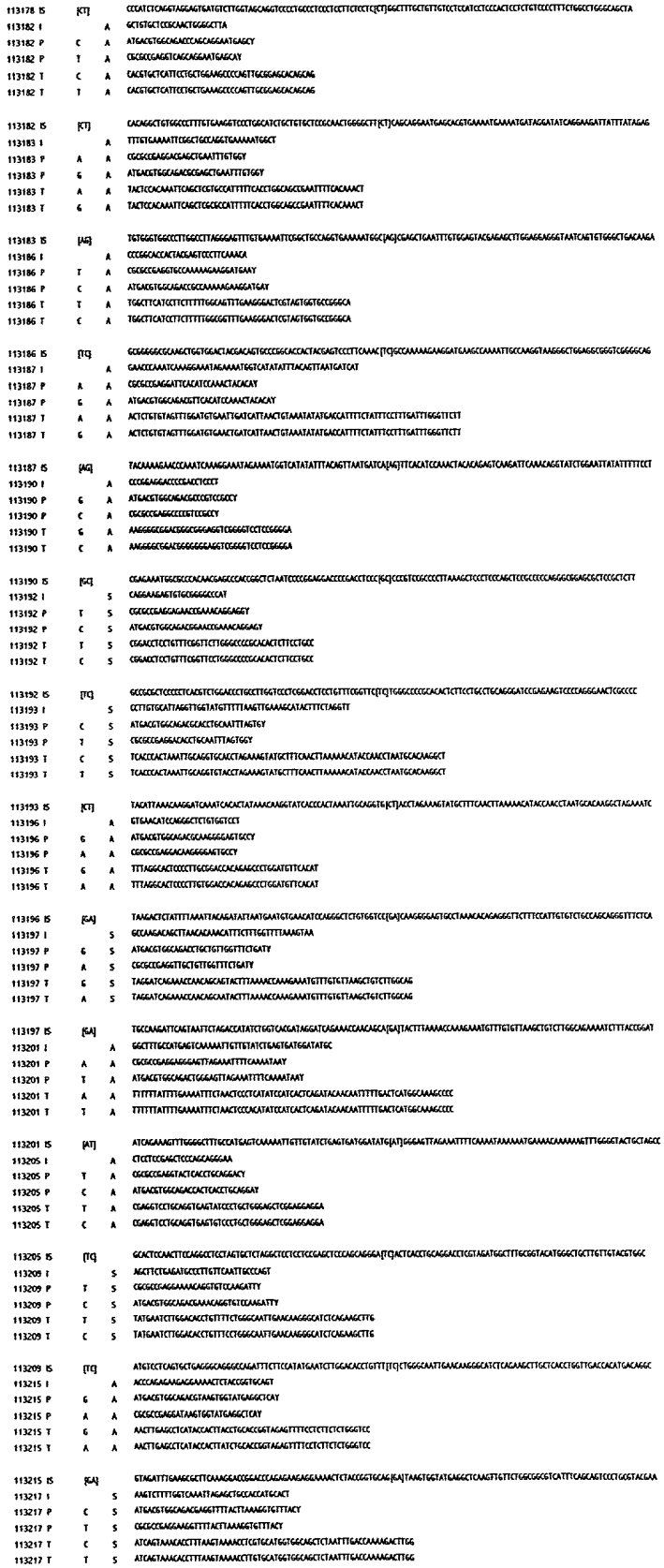


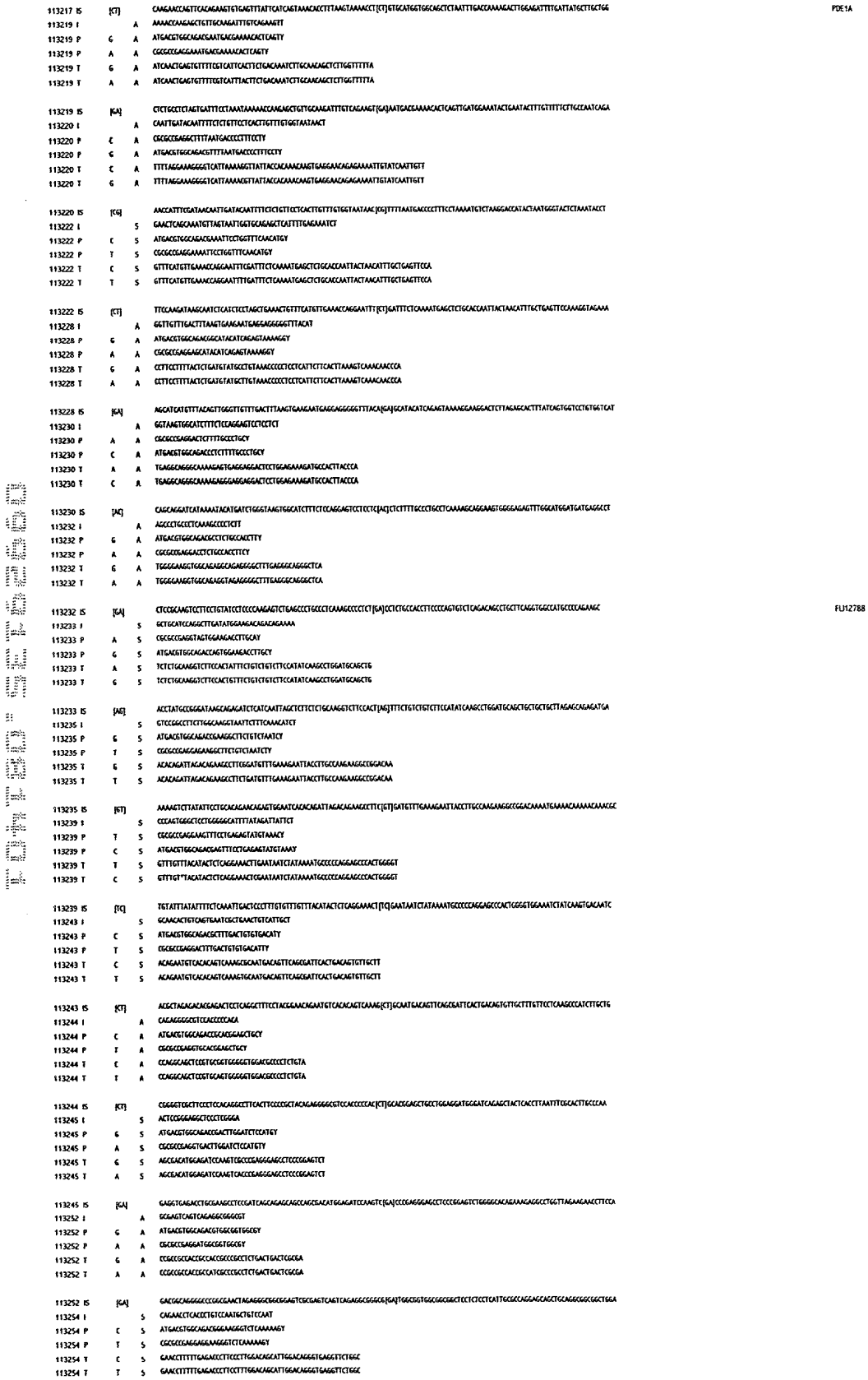
FIGURE 129G



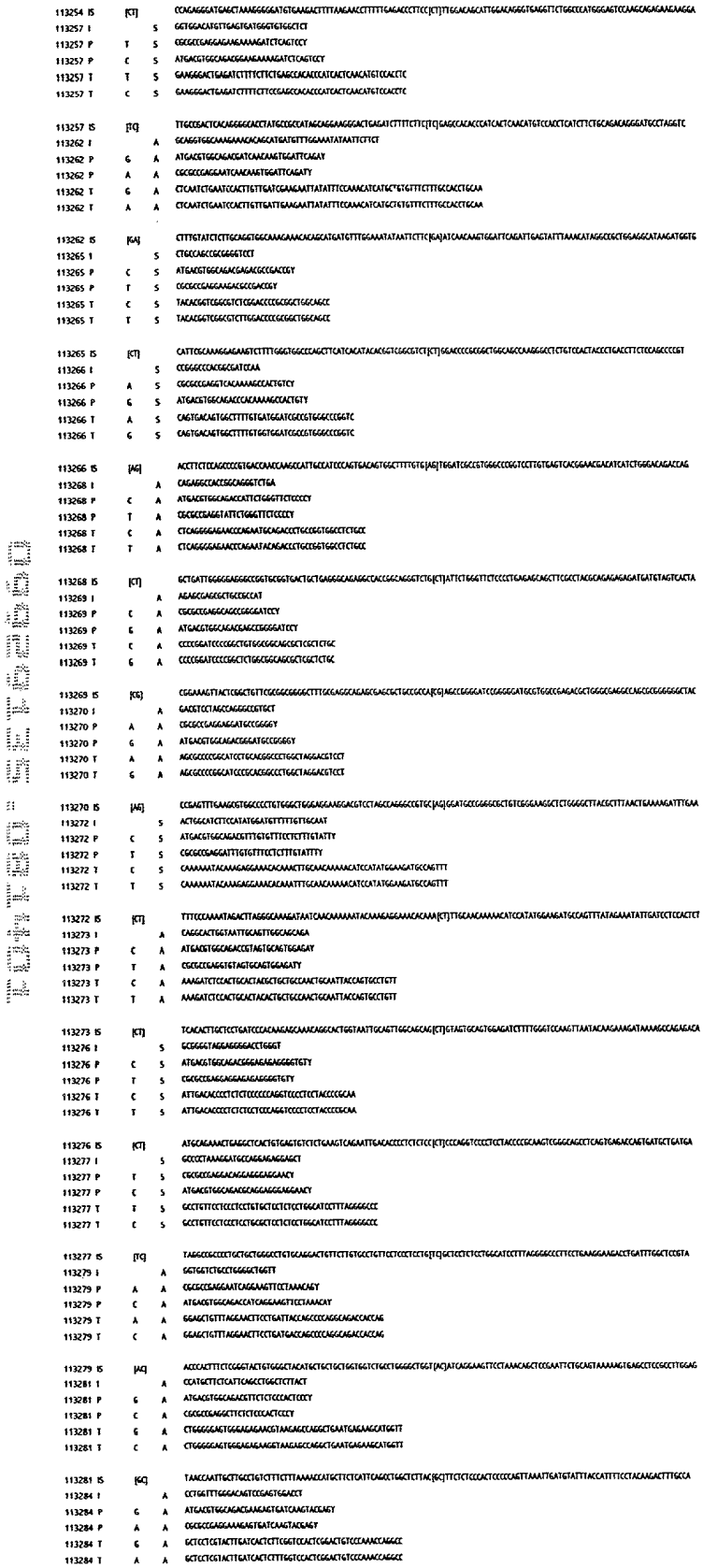


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FIGURE 129G



Applicant's Docket No. 10020.0001.PCUS00


113254 IS [CT] CCAGAGGGATGAGCTAAAGGGGGATGTGAAGACTTTAAGAACCTTTTTGAGACCCTTCC[CT]TTGCACAGCATTGGACAGGGTGAGGTTCTGGCCCATGGGAGTCCAAGCAGAGAAGAAGGA
113257 I S GGTGGACATGTTGAGTGATGGGTGTGGCTCT
113257 P T S CGCGCCCAGGAGAAGAAAAGATCTCAGTCCY
113257 P C S ATGACGTGGCAGACGGAAGAAAAGATCTCAGTCCY
113257 T T S GAAGGGACTGAGATCTTTCTTCTGAGCCACACCCATCACTCAACATGTCCACCTC
113257 T C S GAAGGGACTGAGATCTTTCTTCCCGAGCCACACCCATCACTCAACATGTCCACCTC

113257 IS [TC] TTGCCCACTCACAGGGGCACCTATGCCGCCATAGCAGGAAGGGACTGAGATCTTTTCTC[TC]GAGCCACACCCATCACTCAACATGTCCACCTCATCTTCTGCAGACAGGGATGCCTAGGTC
113262 I A GCAGGTGGCAAAGAAACACAGCATGATGTTTGGAAATATAATTCTTCT
113262 P G A ATGACGTGGCAGACGATCAACAAGTGGATTCAGAY
113262 P A A CGCGCCCAGGAATCAACAAGTGGATTCAGATY
113262 T G A CTCAATCTGAATCCACTTGTTGATGAAGAATTATATTTCCAAACATCATGC*GTGTTTCTTTGCCACCTGCAA
113262 T A A CTCAATCTGAATCCACTTGTTGATTGAAGAATTATATTTCCAAACATCATGCTGTGTTTCTTTGCCACCTGCAA

113262 IS [GA] CTTTGTATCTCTTGCAGGTGGCAAAGAAACACAGCATGATGTTTGGAAATATAATTCTTC[GA]ATCAACAAGTGGATTCAGATTGAGTATTTAAACATAGGCCGCTGGAGGCATAAGATGGTG
113265 I S CTGCCAGCCGCGGGGTCCT
113265 P C S ATGACGTGGCAGACGAGACGCCGACCGY
113265 P T S CGCGCCGAGGAAGACGCCGACCGY
113265 T C S TACACGGTCGGCGTCTCGGACCCCGCGGCTGGCAGCC
113265 T T S TACACGGTCGGCGTCTTGGACCCCGCGGCTGGCAGCC

113265 IS [CT] CATTCGCAAAGGAGAAGTCTTTTGGGTGGCCCAGCTTCATCACATACACGGTCGGCGTCT[CT]GGACCCCGCGGCTGGCAGCCAAGGGCCTCTGTCCACTACCCTGACCTTCTCCAGCCCCGT
113266 I S CCGGGCCCACGGCGATCCAA
113266 P A S CGCGCCGAGGTCACAAAAGCCACTGTCY
113266 P G S ATGACGTGGCAGACCACAAAAGCCACTGTY
113266 T A S CAGTGACAGTGGCTTTTGTGATGGATCGCCGTGGGCCCGGTC
113266 T G S CAGTGACAGTGGCTTTTGTGGTGGATCGCCGTGGGCCCGGTC

113266 IS [AG] ACCTTCTCCAGCCCCGTGACCAACCAAGCCATTGCCATCCCAGTGACAGTGGCTTTTGTG[AG]TGGATCGCCGTGGGCCCGGTCCTTGTGAGTCACGGAACGACATCATCTGGGACAGACCAG
113268 I A CAGAGGCCACCGGCAGGGTCTGA
113268 P C A ATGACGTGGCAGACCATTCTGGGTTCTCCCCY
113268 P T A CGCGCCGAGGTATTCTGGGTTCTCCCCY
113268 T C A CTCAGGGGAGAACCCAGAATGCAGACCCTGCCGGTGGCCTCTGCC
113268 T T A CTCAGGGGAGAACCCAGAATACAGACCCTGCCGGTGGCCTCTGCC

113268 IS [CT] GCTGATTGGGGGAGGGCCGGTGCGGTGACTGCTGAGGGCAGAGGCCACCGGCAGGGTCTG[CT]ATTCTGGGTTCTCCCCTGAGAGCAGCTTCGCCTACGCAGAGAGAGATGATGTAGTCACTA
113269 I A AGAGCCAGCGCTGCCGCCAT
113269 P C A CGCGCCGAGGCAGCCGGCGATCCY
113269 P G A ATGACGTGGCAGACGAGCCGGGGATCCY
113269 T C A CCCCGGATCCCCGGCTGTGGCGGCAGCGCTCGCTCTGC
113269 T G A CCCCGGATCCCCGGCTCTGGCGGCAGCGCTCGCTCTGC

113269 IS [CG] CGGAAAGTYACTCGGCTGTTCGCGGCGGGGGCTTTGCGAGGCAGAGCGAGCGCTGCCGCCA[CG]AGCCGGGGATCCGGGGCGATGCGTGGCCGAGACGCTGGGCGAGGCAGCCAGCGCGGGGGGCTAC
113270 I A GACGTCCTAGCCAGGGCCGTGCT
113270 P A A CGCGCCCAGGAAGATGCCGGGGY
113270 P G A ATGACGTGGCAGACGGGATGCCGGGGY
113270 T A A AGCGCCCCGGCATCCCGCAGGCCCTGGCTAGGACGTCCT
113270 T G A AGCGCCCCGGCATCCCGCAGGCCCTGGCTAGGACGTCCT

113270 IS [AG] CCGAGTTTGAAGGGTGGCCCCTGTGGGCTGGGAGGAAGGACGTCCTAGCCAGGGCCGTGC[AG]GGATGCCGGGCGCTGTCGGGAAGGCTCTGGGGCTTACGCTTAACTGAAAAGATTTGAA
113272 I S ACTGGCATCTCCATATGGATGTTTTTGTTGCAAT
113272 P C S ATGACGTGGCAGACGTTTGTGTTTCCTCTTGTATTY
113272 P T S CGCGCCGAGGATTTGTGTTTCCTCTTGTATTTY
113272 T C S CAAAAAATACAAAGAGGAAAACACAAACTTGCAACAAAACATCCATATGGAAGATGCCAGTTT
113272 T T S CAAAAAATACAAAGAGGAAAACACAAATTTGCAACAAAACATCCATATGGAAGATGCCAGTTT

113272 IS [CT] TTTCCCAAAATAGACTTAGGGCAAAGATAATCAACAAAAAATACAAAGAGGAAACACAAA[CT]TTGCAACAAAACATCCATATGGAAGATGCCAGTTTATAGAAATATTGATCCTCCACTCT
113273 I A CAGGCACTGGTAATTGCAGTTGGCAGCAGA
113273 P C A ATGACGTGGCAGACCGTAGTGCAGTGGAGAY
113273 P T A CGCGCCGAGGTGTAGTGCAGTGGAGATY
113273 T C A AAAGATCTCCACTGCACTAGGCTGCTGCCAACTGCAATTACCAGTGCCTGTT
113273 T T A AAAGATCTCCACTGCACTACACTGCTGCCAACTGCAATTACCAGTGCCTGTT

113273 IS [CT] TCACACTTGCTCCTGATCCCACAAGAGCAAACAGGCACTGGTAATTGCAGTTGGCAGCAG[CT]GTAGTGCAGTGGAGATCTTTTGGGTCCAAGTTAATACAAGAAAGATAAAAGCCAGAGACA
113276 I S GCGGGGTAGGAGGGGACCTGGGT
113276 P C S ATGACGTGGCAGACGGGAGAGAAGGGGTGTY
113276 P T S CGCGCCGAGGAGAAGAAGGGGTGTY
113276 T C S ATTGACACCCCTCTCTCCCCCCAGGTCCCCTCCTACCCCGCAA
113276 T T S ATTGACACCCCTCTCTCCTCCCAGGTCCCCTCCTACCCCGCAA

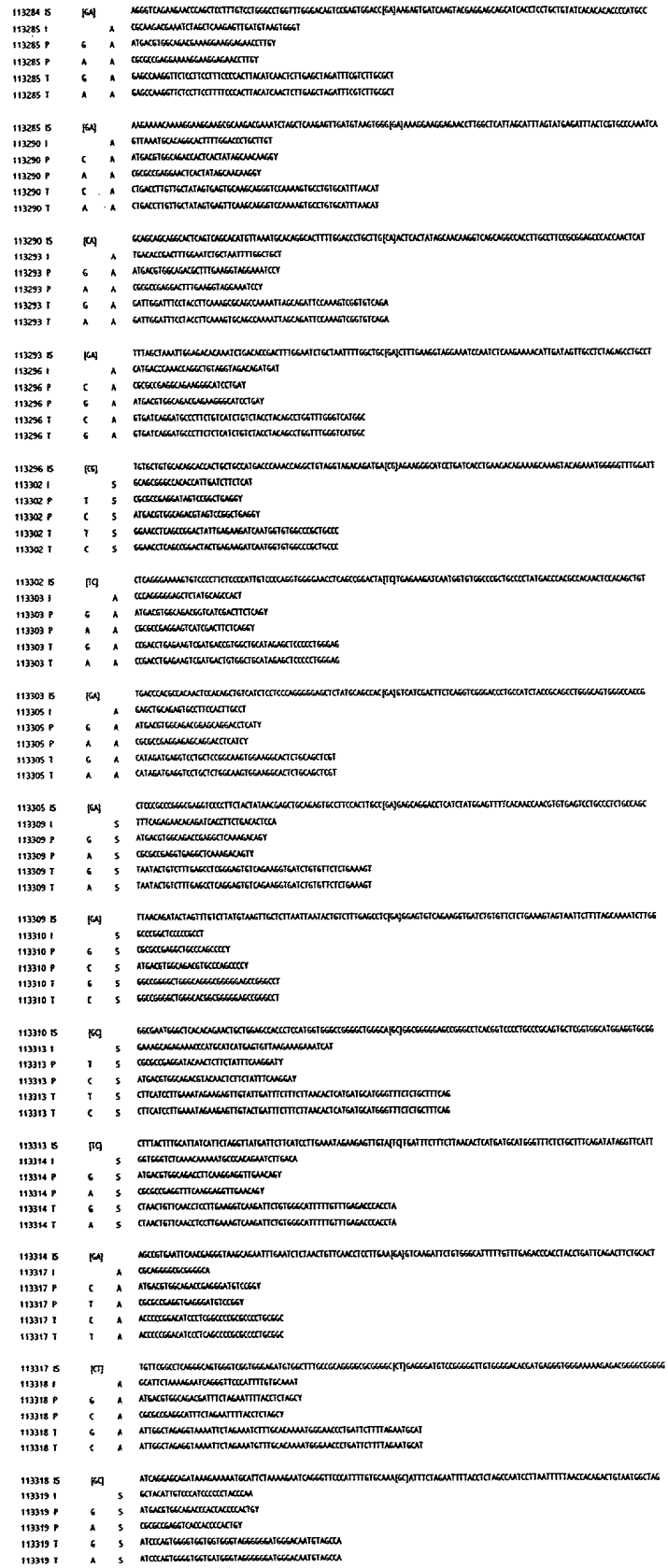
113276 IS [CT] ATGCAGAAACTGAGGCTCACTGTGAGTGTCTCTGAAGTCAGAATTGACACCCCTCTCTCCC[CT]CCCAGGTCCCCTCCTACCCCGCAAGTCGGGCAGCCTCAGTGAGACCAGTGATGCTGATGA
113277 I S GCCCCTAAAGGATGCCAGGAGAGAGGAGCT
113277 P T S CGCGCCGAGGACAGGAGGGAGGAAGY
113277 P C S ATGACGTGGCAGACGCAGGAGGGAAGY
113277 T T S GCCTGTTCCTCCCTCCTGTGCTCCTCTCCTGGCATCCTTTAGGGGCCC
113277 T C S GCCTGTTCCTCCCTCCTGCGCTCCTCTCCTGGCATCCTTTAGGGGCCC

113277 IS [TC] TAGGCCGCCCCTGCTGCTGGGCCTGTGCAGGACTGTTCTTGTGCCTGTTCCTCCCTCCTGTC[TC]GCTCCTCTCCTGGCATCCTTTAGGGGCCCTTCCTGAAGGAAGACCTGATTTGGCTCCGTA
113279 I A GGTGGTCTGCCTGGGGCTGGTT
113279 P A A CGCGCCGAGGAATCAGGAAGTTCCTAAACAGY
113279 P C A ATGACGTGGCAGACCATCAGGAAGTTCCTAAACAY
113279 T A A GGAGCTGTTTAGGAACTTCCTGATTACCAGCCCCAGGCAGACCACCAG
113279 T C A GGAGCTGTTTAGGAACTTCCTGATGACCAGCCCCAGGCAGACCACCAG

113279 IS [AC] ACCCACTTTCTCGGGTACTGTGGGCTACATGCTGCTGCTGGTGGTCTGCCTGGGGCTGGT[AC]ATCAGGAAGTTCCTAAACAGCTCCGAATTCTGCAGTAAAAAGTGAGCCTCCGCCTTGGAG
113281 I A CCATGCTTCTCATTCAGCCTGGCTCTTACT
113281 P G A ATGACGTGGCAGACGTTCTCTCCCACTCCCY
113281 P C A CGCGCCGAGGCTTCTCTCCCACTCCCY
113281 T G A CTGGGGCAGTGGGAGAGAAGGTAACAGCCCAGGCTGAATGAGAAGCATGGTT
113281 T C A CTGGGGCAGTGGGAGAGAAGGTAACAGCCCAGGCTGAATGAGAAGCATGGTT

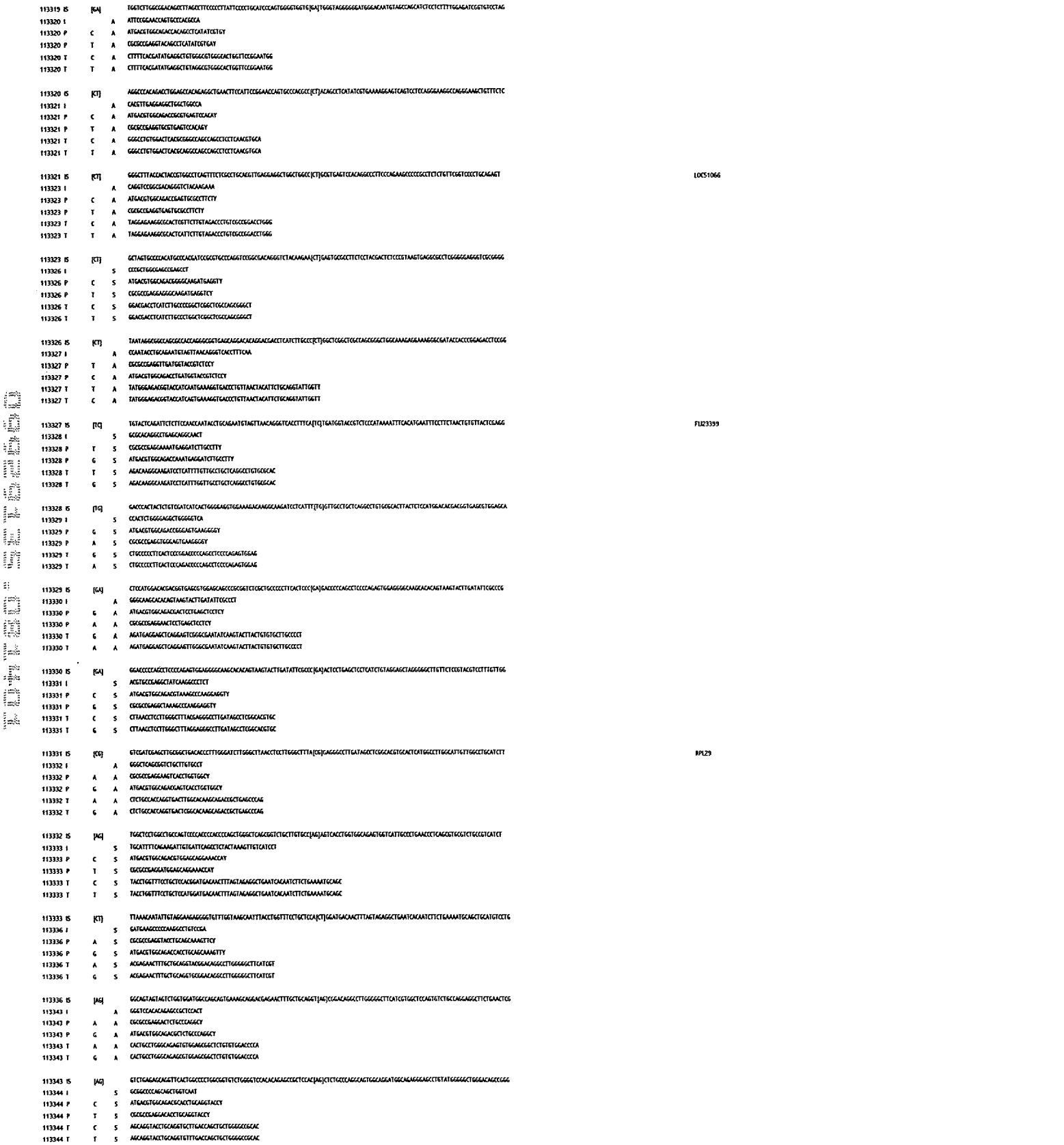
113281 IS [GC] TAACCAATTGCTTGCCTGTCTTTCTTTAAAACCATGCTCTCATTCAGCCTGGCTCTTAC[GC]TTCTCTCCCACTCCCCCAGTTAAATTGATGTATTTACCATTTTCCTACAAGAGTTTGCCA
113284 I A CCTGGTTTGGGACAGTCCGAGTGGACCT
113284 P G A ATGACGTGGCAGACGAAGAGTGATCAAGTACGAGY
113284 P A A CGCGCCGAGGAAAGAGTGATCAAGTACGAGY
113284 T G A GCTCCTCGTACTTGATCACTCTTGGGTCCACTCGGACTGTCCCAAACCAGGCC
113284 T A A GCTCCTCGTACTTGATCACTCTTTGGTCCACTCGGACTGTCCCAAACCAGGCC

FIGURE 129G



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FIGURE 129G



Applicant's Docket No. 10466-2 PCT

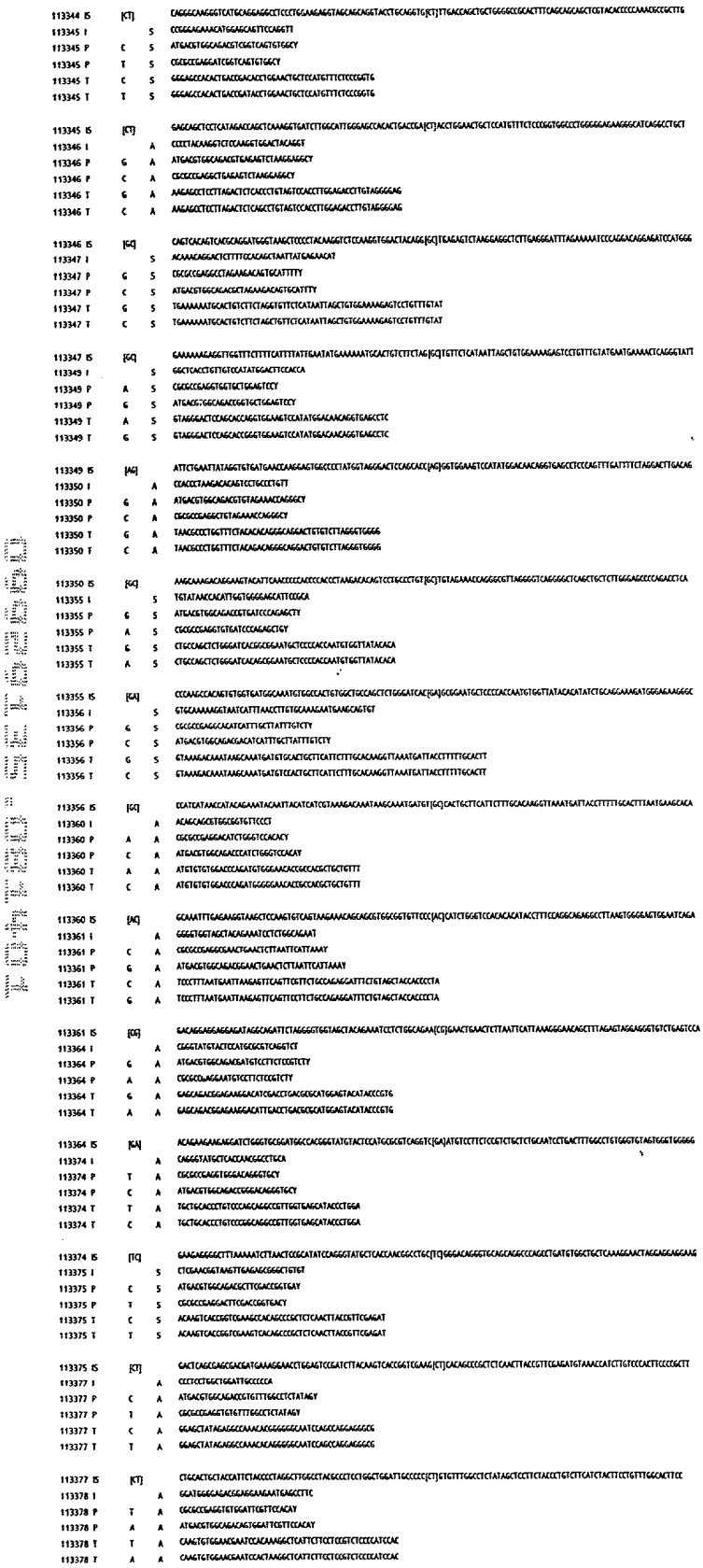


FIGURE 129G

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113378 IS  [TA]      GTGAGTGTCAGGGGCTCAGTGAGATGGTGTGGATGGGGAGACGGAGGAAGAATGAGCCTT[TA]GTGGATTCGTTCCACACTTGGCCAGGGAACTGGGGGCTGAGGATACTTTGGCTTTGGTCT
113379 I         S  CCCTCTGTCCCTTCATACCTCTAGAGGGGGTCT
113379 P  T      S  CGCGCCGAGGATAGACCTAAACTCCTCCCY
113379 P  C      S  ATGACGTGGCAGACGTAGACCTAAACTCCTCCCY
113379 T  T      S  TCAAGGAGGAGTTTAGGTCTATGACCCCCTCTAGAGGTATGAAGGGACAGAGGGAG
113379 T  C      S  TCAAGGAGGAGTTTAGGTCTACGACCCCCTCTAGAGGTATGAAGGGACACAGGGAG

113379 IS  [TC]      TGGGGGCTGAGGATACTTTGGCTTTGGTCTTTGGGATTTCAAGGGAGGAGTTTAGGTCTA[TC]GACCCCCTCTAGAGGTATGAAGGGACAGAGGGAGAGTGGACAGAGATGGGTCTGGGGCTG
113380 I         A  CTGTCACACAGACGCCAGGTATAGTGGGCT
113380 P  G      A  ATGACGTGGCAGAGGTAGTGGGAAGGGCAY
113380 P  A      A  CGCGCCGAGGATAGTGGGAAGGGCAGY
113380 T  G      A  CTTTCTGCCCTTCCCACTACGCCACTATACCTGGGGTCTGTGTGACAGAT
113380 T  A      A  CTTTCTGCCCTTCCCACTATGCCCACTATACCTGGGGTCTGTGTGACAGAT

113380 IS  [GA]      GTCCTGGATGGTGTGCGGGGTCCTGAGGGATCTGTCACACAGACGCCAGGTATAGTGGGC[GA]TAGTGGGAAGGGCAGAAAGGTGTGTCTGGGTGGGCTGCCCGCTTCAGTAACTTGTTCCCC
113381 I         S  GCAACAGCCCTACTCCCTTACCCGCCT
113381 P  T      S  CGCGCCGAGGATGACTCCCCCGACTY
113381 P  C      S  ATGACGTGGCAGACGTGACTCCCCCGACY
113381 T  T      S  CTGGAGTCGGGGGAGTCATGGCGGGTAAGGGAGTAGGGCTGTTGCCA
113381 T  C      S  CTGGAGTCGGGGGAGTCACGGCGGGTAAGGGAGTAGGGCTGTTGCCA

113381 IS  [TC]      CCCCCCAGGACCTGTTGGCCCCCGAGGACGAGATGTAAGAGGCTGGAGTCGGGGGAGTCA[TC]GGCGGGTAAGGGAGTAGGGCTGTTGCCAGCATCATGGGGGTTCTTGGAACCAGGGCTGAC
113382 I         A  GTGTGGAACAGTCAGGAGTATGTGCCCCCA
113382 P  C      A  ATGACGTGGCAGACACACACCACTCTGCY
113382 P  T      A  CGCGCCGAGGTACCACCACTTCTGCTCY
113382 T  C      A  GCGGGAGCAGAAGTGGTGGTGGGGGGCACATACTCCTGACTGTTCCACACCT
113382 T  T      A  GCGGGAGCAGAAGTGGTGGTAGGGGGCACATACTCCTGACTGTTCCACACCT

113382 IS  [CT]      CACACTCAGTGTCCTGGTTGGCCCTCTTCCAGGTGTGGAACAGTCAGGAGTATGTGCCCCC[CT]ACCACCACTTCTGCTCCCGCCACTGTCCTGTCTGTACTCCCCTGAGTGTCTGACCATCGT
113383 I         S  GCCCTCTTTCCAACACATTTACCTTGCTTCTCCCCT
113383 P  T      S  CGCGCCGAGGATAGTGACTTCTGGAAATTCAGY
113383 P  C      S  ATGACGTGGCAGACGTAGTGACTTCTGGAAATTCAY
113383 T  T      S  GGCCCTGAATTTCCAGAAGTCACTATGGGAGAAGCAAGGTAAATGTGTTGGAAAGAGGGCTA
113383 T  C      S  GGCCCTGAATTTCCAGAAGTCACTACGGGAGAAGCAAGGTAAATGTGTTGGAAAGAGGGCTA

113383 IS  [TC]      AATGCCATCAAGCGGGAGATTGATGTGACCAAGGAGGGCCTGAATTTCCAGAAGTCACTA[TC]GGGAGAAGCAAGGTAAATGTGTTGGAAAGAGGGCTAGGGAGCTTTGGGGTCTCAGAGTCA
113384 I         A  CTCAGAGGCCTATGTCTCCAGCAGGATGGGT
113384 P  A      A  CGCGCCGAGGAGCCTCAGTGACTAGGY
113384 P  G      A  ATGACGTGGCAGACGGCCTCAGTGACTAGGY
113384 T  A      A  GTTTCCTAGTCACTGAGGCTCCCATCCTCCTGGAGACATAGGCCTCTGAGTT
113384 T  G      A  GTTTCCTAGTCACTGAGGCCCCATCCTCCTGGAGACATAGGCCTCTGAGTT

113384 IS  [AG]      ATGCCAAAGTCAAGATAGAGCAGAAGGTAACTCAGAGGCCTATGTCTCCAGGAGGATGGG[AG]GCCTCAGTGACTAGGAAACCCAGGATCATATTCCCTACTTTAGAGAGGTAGGGGAGGAAT
113385 I         A  GGAGGGCAGCAAAGACCACACAGGCAAAT
113385 P  G      A  ATGACGTGGCAGACGGTTCCCAAAGAGTGCY
113385 P  A      A  CGCGCCGAGGAGTTCCCAAAGAGTGCTY
113385 T  G      A  ACCAAGCACTCTTGGGAACCTTTGCCTGTGGTCTTTGCTGCCCTCCCT
113385 T  A      A  ACCAAGCACTCTTGGGAACTTTGCCTGTGGTCTTTGCTGCCCTCCCT

113385 IS  [GA]      GAAGCAAGACCCACAGTGGCCCAACCCAAGGCAGGGAGGGCAGCAAAGACCACAGGCAAA[GA]GTTCCCAAAGAGTGCTTGGTTACAGAGTTAACCCCTGGAATTGGAGAGTTTCTGACCTGA
113387 I         A  CACCGAGGCCGAGGCGTCCCT
113387 P  G      A  ATGACGTGGCAGACGGAGTCATGGCCGGY
113387 P  C      A  CGCGCCGAGGCGAGTCATGGCCGGY
113387 T  G      A  CAGGCCGGCCATGACTCCGGGACGCCTCGGCCTCGGTGGG
113387 T  C      A  CAGGCCGGCCATGACTCCGGGACGCCTCGGCCTCGGTGGG

113387 IS  [GC]      TTGGGCGCCTGGGGCCCCCGCTCCCCACCGTCGTTTCCCCACCGAGGCCGAGGCGTCCC[GC]GAGTCATGGCCGGCCTGAACTGCGGGGTCTCTATCGCACTGCTAGGGGTTCTGCTGCTGG
113388 I         A  CCTCGCCCACCCCGGGGCT
113388 P  G      A  ATGACGTGGCAGACGGTCGCCACAGGTY
113388 P  A      A  CGCGCCGAGGAGTCGCCACAGGTGY
113388 T  G      A  GACACACCTGTGGCGACTGCCCCGGGGTGGGCCAGGCC
113388 T  A      A  GACACACCTGTGGCGACTGCCCCGGGGTGGGCCAGGCC

113388 IS  [GA]      GGTCTCGCTTAATACTCACCACACAAACCTGGTGGAGGGAGGCCTCGCCCACCCCGGGGC[GA]GTGCCACAGGTGTGTCCTGGGAGCACACGCTGGGCCTGGCGGAGGGGGAAGGGCCATCC
113390 I         S  GTAGGGCCCTTCCGCTTCAGCCCT
113390 P  C      S  ATGACGTGGCAGACGTACCTTGGGAGTGAACAY
113390 P  T      S  CGCGCCGAGGATACCTTGGGAGTGAACAY
113390 T  C      S  TACATGTTCACTCCCAAGGTACGGGCTGAAGCGGAAGGGCCCTACGG
113390 T  T      S  TACATGTTCACTCCCAAGGTATGGGCTGAAGCGGAAGGGCCCTACGG

113390 IS  [CT]      AGGGGCCTCAGCGTCCAGGGAGCCACCAATGGGCTCATGTACATGTTCACTCCCAAGGTA[CT]GGGCTGAAGCGGAAGGGCCCTACGGGCACCCCTCACTTATCCTGCCACCTTCCAGGATGG
113396 I         A  TCTCTGAATCAGCAAAGTCTACTCTTCCTACAGAACTGGAATGAGC
113396 P  G      A  ATGACGTGGCAGACGAAGGACCAGTAAGGCAY
113396 P  T      A  CGCGCCGAGGTAAGGACCAGTAAGGCAAY
113396 T  G      A  CACTTTGCCTTACTGGTCCTTCCTCATTCCAGTTCTGTAAGGAAGAGTAGACTTTGCTGATTCAGAGAAG
113396 T  T      A  CACTTTGCCTTACTGGTCCTTACTCATTCCAGTTCTGTAAGGAAGAGTAGACTTTGCTGATTCAGAGAAG

113396 IS  [GT]      TTTAGCCCTACCACTTCTCTGAATCAGCAAAGTCTACTCTTCCTACAGAACTGGAATGAG[GT]AAGGACCAGTAAGGCAAAGTGAAACACCCAAACCACCAGCATGCTCCCATCCAGAATGGT
113398 I         A  CAATACGTTTGCCTTGAAAGGTGATGGTGAGGAATAATGAGAT
113398 P  A      A  CGCGCCGAGGAAAGAGAAGGGGTTTGCY
113398 P  C      A  ATGACGTGGCAGACCAAGAGAAGGGGTTTGCY
113398 T  A      A  CTGTGCAAACCCCTTCTCTTTTCTCATTATTCCTCACCATCACCTTTCAAGGCAAACGTATTGGA
113398 T  C      A  CTGTGCAAACCCCTTCTCTTGTCTCATTATTCCTCACCATCACCTTTCAAGGCAAACGTATTGGA

113398 IS  [AC]      TCTCTCTAACTTGCATTCCAATACGTTTGCCTTGAAAGGTGATGGTGAGGAATAATGAGAGAC[AC]AAGAGAAGGGGTTTGCACAGATTGAGTGCTCAGGTGAGGGAACAAGAGGTAGCTGGAACC
113400 I         S  CTGGTCCCATAAATCTCTCATCTTTGAAAAAAGTGTTTAAACCCCCT
113400 P  G      S  CGCGCCGAGGCCCTTACCTCTGAGCAY
113400 P  C      S  ATGACGTGGCAGACGCCTTACCTCTGAGCAY
113400 T  G      S  TTACTGCTCAGAGGTAAGGGGGGGGTTTAAACACTTTTTTCAAAGATGAGAGATTTATGGGACCAGGA
113400 T  C      S  TTACTGCTCAGAGGTAAGGGGGGGTTTAAACACTTTTTTCAAAGATGAGAGATTTATGGGACCAGGA

113400 IS  [GC]      AAGCCACCTGTCTGGGGAAGAGGAAGTTCTCAGCTTCATTGTTACTGCTCAGAGGTAAGG[GC]GGGGGTTTAAACACTTTTTTCAAAGATGAGAGATTTATGGGACCAGGAAAGGATGTGTCC
113404 I         A  GCGGGTCTTCTTCCTTCTCGCCTAACGCA
113404 P  C      A  ATGACGTGGCAGACCGCCAACATGGTGAGY
113404 P  T      A  CGCGCCGAGGTGCCAACATGGTGAGTY
113404 T  C      A  TAAGACTCACCATGTTGGCGGCGTTAGGCCAGAAGGAAGAAGACCCGCCC
113404 T  T      A  TAAGACTCACCATGTTGGCAGCGTTAGGCCAGAAGGAAGAAGACCCGCCC
```

FIGURE 129G

```
113404 IS    [CT]          CGGTGCGTTCTTCTACACATGCGCAGGGTTGGGCGGGTCTTCTTCCTTCTCGGCTAACGC[CT]GCCAACATGGTGAGTCTTACTGTTGCGGGCTCCGGGGCCCTGCACCATGCCGCTCGACCT
113407 I          A    GGCTCTCGGGGCTTTGTTCCCTGCT
113407 P    A     A    CGCGCCGAGGAGCATCTTTTTCGCTGAY
113407 P    G     A    ATGACGTGGCAGACGGCATCTTTTTCGCTGY
113407 T    A     A    AAATTCAGCGAAAAGAATGCTGCAGGGAACAAACGCCCGAGAGCCAG
113407 T    G     A    AAATTCAGCGAAAAGAATGCCGCAGGGAACAAACGCCCGAGAGCCAG

113407 IS   [AG]          GGGGTTTGCTGATTCGTCCATCCAGGTTGGCGCCTGGCTCTCGGGCGTTTGTTCCCTGC[AG]GCATTCTTTTTCGCTGAATTTAACCATGTTGTCTTTAGCTGCAGAAGGTGACATATGTAG
113408 I          S    CCAATCAGAGATTCACATATTTTCTACCTTATGTTTGTTACAGTTACAT
113408 P    C     S    ATGACGTGGCAGACGCAGATGAATGGAACAGCY
113408 P    G     S    CGCGCCGAGGCCAGATGAATGGAACAGCY
113408 T    C     S    GGTTGCTGTTCCATTCATCTGCTGTAACTGTAACAAAACATAAGGTAGAAAATATGTGAATCTCTGATTGGTT
113408 T    G     S    GGTTGCTGTTCCATTCATCTGGTGTAACTGTAACAAAACATAAGGTAGAAAATATGTGAATCTCTGATTGGTT

113408 IS   [CG]          GTATTTCCAGAGTCTGATTTATCTCTATTTCTATGGTATGGTTGCTGTTCCATTCATCTG[CG]TGTAACTGTAACAAAACATAAGGTAGAAAATATGTGAATCTCTGATTGGTTTGTAAAGTG
113409 I          A    GCTAAAAAACCCGAACTCTACCACACACAGCCTGT
113409 P    G     A    ATGACGTGGCAGACGGTCTGTTTATCACTTGGCY
113409 P    A     A    CGCGCCGAGGAGTCTGTTTATCACTTGGCY
113409 T    G     A    GCTTGCCAAGTGATAAACAGACCCAGGCGTGTGTGGTAGAGTTCGGGTTTTTTAGCAC
113409 T    A     A    GCTTGCCAAGTGATAAACAGACTCAGGCGTGTGTGGTAGAGTTCGGGTTTTTTAGCAC

113409 IS   [GA]          CAAGCAAACTCCAGCTACCCACTTCGTGCTAAAAAACCCGAACTCTACCACACACAGCCTG[GA]GTCTGTTTATCACTTGGCAAGCCCCCAGGAAATGAAACGTAGACAGGAAAGTAATGTGGT   TACTTLE
113411 I          A    ATGGTCCCTTTCTGAGGCTGCTATTACAAATGGGATT
113411 P    G     A    ATGACGTGGCAGACGTGGGATTTGGAAAAACTY
113411 P    A     A    CGCGCCGAGGATGGCATTTTGGAAAAACTTY
113411 T    G     A    TGTCAAGTTTTTCCAAAATGCCACATCCCATTTGTAATAGCAGCCTCAGAAAGGGACCATGA
113411 T    A     A    TGTCAAGTTTTTCCAAAATGCCATATCCCATTTGTAATAGCAGCCTCAGAAAGGGACCATGA

113411 IS   [GA]          AATATGAATCTAAATGTGCCTATCATGGTCCCTTTCTGAGGCTGCTATTACAAATGGGATG[GA]TGGCATTTTGGAAAAACTTGACAACTTATCCTTCATTTTACAGAAAGTTTCCCATGCCGT
113412 I          A    GATCTACCAAGAACAAGGGATTCCCCAAAACCCCT
113412 P    G     A    ATGACGTGGCAGACGTTCCGAGGCTTTAACTGY
113412 P    A     A    CGCGCCGAGGATTCCGAGGCTTTAACTGY
113412 T    G     A    AGGTCAGTTAAAGCCTCGGAACGGGGTTTTGGGGAATCCCTTGTTCTTTGGTAGATCCA
113412 T    A     A    AGGTCAGTTAAAGCCTCGGAATGGGGTTTTGGGGAATCCCTTGTTCTTTGGTAGATCCA

113412 IS   [GA]          GATTTTTCACTCCACATAATCTTTGGATCTAECAAAGAACAAGGGATTCCCCAAAACCCC[GA]TTCCGAGGCTTTAACTGACCTTTGTCCTGCACCAGCACCTCCAGCTCCTCCCGAACGCCA
113413 I          S    GGAACGGTCTTCATGAATGCACACGCTGTGATTTTTTTTTTTTTC
113413 P    A     S    CGCGCCGAGGTAAATCTCACACCAACCCY
113413 P    T     S    ATGACGTGGCAGACAAAATCTCACACCAACCCY
113413 T    A     S    ACAGGGGTTGGTGTGAGATTTAAAAAAAAAAAAAAAATCACAGCGGTGTGCATTCATGAAGACCGTTCCGA
113413 T    T     S    ACAGGGGTTGGTGTGAGATTTTAAAAAAAAAAAAAATCACAGCGGTGTGCATTCATGAAGACCGTTCCGA

113413 IS   [AT]          TAAGGAAGGTAAAGGCTTCATAGAGCTATGGAGAGATAAACAGGGGTTGGTGTGAGATTT[AT]AAAAAAAAAAAAAATCACAGCGGTGTGCATTCATGAAGACCGTTCCGATCACACCCATTCG
113414 I          A    GGCGGGGCAGCTGGAGGGAT
113414 P    G     A    ATGACGTGGCAGACGGTGCAGATGGTCAAGY
113414 P    A     A    CGCGCCGAGGAGTGCAGATGGTCAAGAY
113414 T    G     A    GTTTTCTTGACCATCTGCACCTCCCTCCAGCTGCCCCGCCCT
113414 T    A     A    GTTTTCTTGACCATCTGCACTTCCCTCCAGCTGCCCCGCCCT

113414 IS   [GA]          CTCTCAGGTGAGTTCAGACAGCCTGAGGCACATGGCATGAGGGCGGGGCAGCTGGAGGGA[GA]GTGCAGATGGTCAAGAAAACAGGATTCTGTCTCCAGCGGAGCTTCTCAAGGTTTGCAGGG
113415 I          S    CGTGGGGGTGGGAAGGAAGCATAATTCTGAAAATACA
113415 P    G     S    ATGACGTGGCAGACCTCTTGGATCACTTCTTCCY
113415 P    A     S    CGCGCCGAGGTTCTTGGATCACTTCTTCCY
113415 T    G     S    CCATGGAAGAAGTGATCCAAGAGGTATTTTCAGAATTATGCTTCCTTCCCACCCCCACGCT
113415 T    A     S    CCATGGAAGAAGTGATCCAAGAAGTATTTTCAGAATTATGCTTCCTTCCCACCCCCACGCT

113415 IS   [GA]          TCATTTCTTCAAGAAGTATATCTGCGTTCTCCATCCCCCCATGGAAGAAGTGATCCAAGA[GA]GTATTTTCAGAATTATGCTTCCTTCCCACCCCCACGCTTTCCTCTTGGCCCCAGCCTTCC
113417 I          A    CGCGATCCAGCCCCACGCCA
113417 P    C     A    ATGACGTGGCAGACCCTCCCCACAGCGY
113417 P    T     A    CGCGCCGAGGTCTCCCCCACAGCGY
113417 T    C     A    GGGACGCTGTGGGGAGGGGGCGTGGGGCTGGATCGCGCA
113417 T    T     A    GGGACGCTGTGGGGAGAGGCGTGGGGCTGGATCGCGCA

113417 IS   [CT]          GGAAGGAGACCATGGCAGGAAGGTAAAGGAAGCAGCGCTGCGCGATCCAGCCCCACGCC[CT]CTCCCCACAGGGTCCCCCAGTTTCCTCACTTGGTATCGAGGAGACGACTCTCGCGAGAAC
113423 I          S    TGTTCACCGAGGCAACCAGTTTGAGCTT
113423 P    C     S    ATGACGTGGCAGACGATGTATGTGACGCTGACY
113423 P    T     S    CGCGCCGAGGAATGTATGTGACGCTGACY
113423 T    C     S    TTCTGTCAGCGTCACATACATCAGCTCAAACTGGTTGCGCTCGGTGAACAAG
113423 T    T     S    TTCTGTCAGCGTCACATACATTAGCTCAAACTGGTTGCGCTCGGTGAACAAG

113423 IS   [CT]          AGCGAGGATCTCGTCTTCTCGAAGGGTGCACCCTTGCAGTTCTGTCAGCGTCACATACAT[CT]AGCTCAAACTGGTTGCGCTCGGTGAACAAGTCTGAGACCACTAGAAGCTGGAGATGTGCA
113424 I          S    CACTCTCTGTGTGGTCCTCTGTATCCTTTCAACGTGT
113424 P    T     S    CGCGCCGAGGAAAAGCTTCTTTTGCCAGTY
113424 P    C     S    ATGACGTGGCAGACGAAAGCTTCTTTTGCCAGY
113424 T    T     S    TCTTACTGGCAAAAGAAGCTTTTCAGGTTCAAAGGATACAGAGGACCACACAGAGAGTGAT
113424 T    C     S    TCTTACTGGCAAAAGAAGCTTTCCACGTTCAAAGGATACAGAGGACCACACAGAGAGTGAT

113424 IS   [TC]          CACTGGGTTCTTCTACAGAGACAACTTACTTGTTTTCATCTTACTGGCAAAAGAAGCTTT[TC]CACGTTCAAAGGATACAGAGGACCACACAGAGAGTGATAGATGCCGACAGAATAACCCGT
113427 I          A    GCCAGATAAAGGTGAATGTTCTGCCTGCATTGAAGAGTAATATTTGT
113427 P    G     A    ATGACGTGGCAGACGTCAGTCATAAAAGCTTCTCAY
113427 P    A     A    CGCGCCGAGGATCAGTCATAAAAGCTTCTCAY
113427 T    G     A    TCACTGAGAAGCTTTTATGACTGACCAAATATTACTCTTCAATGCAGGCAGAACATTCACCTTTATCTGGCTA
113427 T    A     A    TCACTGAGAAGCTTTTATGACTGATCAAATATTACTCTTCAATGCAGGCAGAACATTCACCTTTATCTGGCTA

113427 IS   [GA]          AAGAATCTTGATTAGCCAGATAAAGGTGAATGTTCTGCCTGCATTGAAGAGTAATATTTG[GA]TCAGTCATAAAAGCTTCTCAGTGACATGACCAGTTATCCAAAGTTCATAACTTCGATCTG
113429 I          S    GAAGCAAAATCCTTACCTGTTGCAGAATGCCT
113429 P    C     S    ATGACGTGGCAGACGAAGAAATGTCTTGACAGTAAAATY
113429 P    G     S    CGCGCCGAGGCAAGAAATGTCTTGACAGTAAAAY
113429 T    C     S    AGTCATTTTACTGTCAAGACATTTCTTCGGCATTCTGCAACAGGTAAGGATTTTGCTTCCT
113429 T    G     S    AGTCATTTTACTGTCAAGACATTTCTTGGGCATTCTGCAACAGGTAAGGATTTTGCTTCCT

113429 IS   [CG]          TGCTTTTGTTGAACAAATTTGATTTCCGGAGTCAGTCATTTTACTGTCAAGACATTTCTT[CG]GGCATTCTGCAACAGGTAAGGATTTTGCTTCCTTAAAAGTATTTCTTTGGTGTCAAAAGA
113432 I          A    CCTGGTCTCATCGGAAACCTGCGGCATT
113432 P    G     A    ATGACGTGGCAGACGTATTTTTCACCCAAGAAATTTCY
113432 P    A     A    CGCGCCGAGGATATTTTTCACCCAAGAAATTTCGY
113432 T    G     A    AATCCGAAATTTCTTGGGTGAAAAATACATCCGCAGGGTTCGGATGAGACCAGGTA
113432 T    A     A    AATCCGAAATTTCTTGGGTGAAAAATATATCCGCAGGGTTCGGATGAGACCAGGTA
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FIGURE 129G

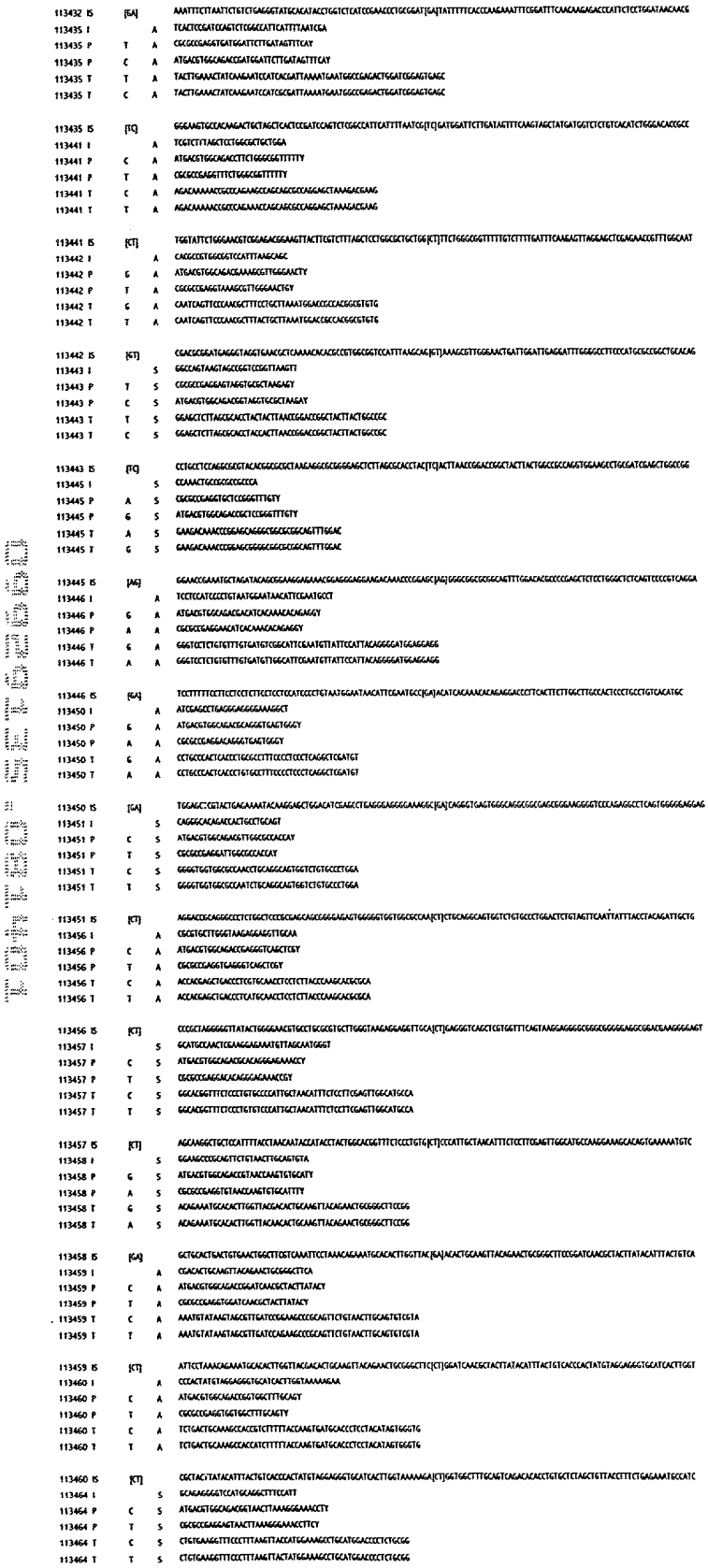

113432 IS [GA] AAATTTCTTAATTCTGTCTGAGGGTATGCACATACCTGGTCTCATCCGAACCCTGCGGATT[GA]TATTTTTCACCCAAGAAATTTCGGATTTCAACAAGAGACCCATTCTCCTGGATAACAACG
113435 I A TCACTCCGATCCAGTCTCGGCCATTCATTTTAATCGA
113435 P T A CGCCCCGAGGTGATGGATTCTTGATAGTTTCAY
113435 P C A ATGACGTGGCAGACCGATGGATTCTTGATAGTTTCAY
113435 T T A TACTTGAAACTATCAAGAATCCATCACGATTAAAATGAATGGCCGAGACTGGATCGGAGTGAGC
113435 T C A TACTTGAAACTATCAAGAATCCATCGCGATTAAAATGAATGGCCGAGACTGGATCGGAGTGAGC
113435 IS [TC] GGGAAGTGCCACAAGACTGCTAGCTCACTCCGATCCAGTCTCGGCCATTCATTTTAATCG[TC]GATGGATTCTTGATAGTTTCAAGTAGCTATGATGGTCTCTGTCACATCTGGGACACCGCC
113441 I A TCGTCTTTAGCTCCTGGCGCTGCTGGA
113441 P C A ATGACGTGGCAGACCTTCTGGGCGGTTTTTY
113441 P T A CGCGCCGAGGTTTCTGGGCGGTTTTTY
113441 T C A AGACAAAAACCGCCCAGAAGCCAGCAGCGCCAGGAGCTAAAGACGAAG
113441 T T A AGACAAAAACCGCCCAGAAACAGCAGCGCCAGGAGCTAAAGACGAAG
113441 IS [CT] TGGTATTCTGGGAACGTCGGAGACGGAAGTTACTTGTCTTTAGCTCCTGGCGCTGCTGG[CT]TTCTGGGCGGTTTTTGTCTTTTGATTTCAAGAGTTAGGAGCTCGAGAACCGTTTGGCAAT
113442 I A CAGCCGTGGCGGTCCATTTAAGCAGC
113442 P G A ATGACGTGGCAGACGAAAGCGTYGGGAACTY
113442 P T A CGCGCCGAGGTAAAGCGTTGGGAACTGY
113442 T G A CAATCAGTTCCCAACGCTTTCCTGCTTAAATGGAACCCCCACGGCGTGTG
113442 T T A CAATCAGTTCCCAACGCTTTACTGCTTAAATGGACCGCCACGGCGTGTG
113442 IS [GT] CGACGCGGATGAGGGTAGGTGAACGCTCAAAACACACGCCGTGGCGGTCCATTTAAGCAG[GT]AAAGCGTTGGGAACTGATTGGATTGAGGATTTGGGGCCTTCCCATGCGCCGGCTGCACAG
113443 I S GGCCAGTAAGTAGCCGGTCCGGTTAAGTT
113443 P T S CGCGCCGAGGAGTAGGTGCGCTAAGAGY
113443 P C S ATGACGTGGCAGACGGTAGCTGCGCTAAGAY
113443 T T S GGAGCTCTTAGCGCACCTACTACTTAACCGGACCGGCTACTTACTGGCCGC
113443 T C S GGAGCTCTTAGCGCACCTACCACTTAACCGGACCGGCTACTTACTGGCCGC
113443 IS [TC] CCTGCCTCCAGGCGCGTACACGGCGCGCTAAGAGGCGCGGGGAGCTCTTAGCGCACCTAC[TC]ACTTAACCGGACCGGCTACTTACTGGCCGCCAGGTGGAAGCCTGCGATCGAGCTGGCCGG
113445 I S CCAAACTGCCGCCGCCGCCCA
113445 P A S CGCGCCGAGGTGCTCCGGGTTTGTY
113445 P G S ATGACGTGGCAGACCGCTCCGGGTTTGTY
113445 T A S GAAGACAAACCGGAGCAGGGCGGCGCGGCAGTTTGGAC
113445 T G S GAAGACAAACCGGAGCGGGGCGGCGCGGCAGTTTGGAC
113445 IS [AG] GGAACCGAAATGCTAGATACAGCGGAAGGAGAAACGGAGGGAGGAAGACAAACCCGGAGC[AG]GGGCGGCGCGGCAGTTTGGACACGCCCGAGCTCTCCTGGGCTCTCAGTCCCGTCAGGA
113446 I A TCCTCCATCCCCTGTAATGGAATAACATTCGAATGCCT
113446 P G A ATGACGTGGCAGACGACATCACAAACACAGAGGY
113446 P A A CGCGCCGAGGAACATCACAAACACAGAGGY
113446 T G A GGGTGCTCTGTGTTTGTGATGTCGGCATTCGAATGTTATTCCATTACAGGGGATGGAGGAGG
113446 T A A GGGTGCTCTGTGTTTGTGATGTTGGCATTCGAATGTTATTCCATTACAGGGGATGGAGGAGG
113446 IS [GA] TCCTTTTTCCTTCCTCCTCTCCTCCTGCATCCCCTGTAATGGAATAACATTCGAATGCC[GA]ACATCACAAACACAGAGGACCCTCACTTCTTGGCTTGCCACTCCCTGCCTGTCACATGC
113450 I A ATCGAGCCTGAGGGAGGGGAAAGGCT
113450 P G A ATGACGTGGCAGACGCAGGGTGAGTGGGY
113450 P A A CGCGCCGAGGACAGGGTGAGTGGGY
113450 T G A CCTGCCCACTCACCCTGCGCCTTTCCCCTCCCTCAGGCTCGATGT
113450 T A A CCTGCCCACTCACCCTGTGCCTTTCCCCTCCCTCAGGCTCGATGT
113450 IS [GA] TGGAGCCCGTACTGACAAAATACAAGGAGCTGGACATCGAGCCTGAGGGAGGGCAAAGGC[GA]CAGGGTGAGTGGGCAGGCGGCGAGCGGGAAGGGGTCCCAGAGGCCTCAGTGGGGGAGGAG
113451 I S CAGGGCACAGACCACTGCCTGCAGT
113451 P C S ATGACGTGGCAGAGGTTGGCGCCACCAY
113451 P T S CGCGCCGAGAATTGGCCCCACCAY
113451 T C S GGGGTGGTGGCGCCAACCTGCAGGCAGTGGCTCTGTGCCCTGGA
113451 T T S GGGGTGGTGGCGCCAATCTGCAGGCAGTGGCTCTGTGCCCTGGA
113451 IS [CT] AGGACCGCAGGGCCCTCTGGCTCCCGCAGCAGCCGGGGAGAGTGGGGGTGGTGGCGCCAA[CT]CTGCAGGCAGTGGTCTGTGCCCTGGACTCTGTAGTTCAATTATTTACCTACAGATTGCTG
113456 I A CGCGTGCTTGGGTAAGAGAAGGTTGCAA
113456 P C A ATGACGTGGCAGACCGAGGGTCAGCTCGY
113456 P T A CGCGCCGAGGTCAGGGTCAGCTCGY
113456 T C A ACCACGAGCTGACCCTCGTGCAACCTCCTCTTACCCAAGCACGCGCA
113456 T T A ACCACGAGCTGACCCTCATGCAACCTCCTCTTACCCAAGCACGCGCA
113456 IS [CT] CCCGCTAGGGGGTTATACTGGGGAACGTGCCTGCGCGTGCTTGGGTAAGAGGAGGTTGCA[CT]GAGGGTCAGCTCGTGGTTTCAGTAAGGAGGGCGGGCGGGGGGAGGCGGACGAAGGGAGT
113457 I S GCATGCCAACTCGAAGGAGAAATGTTAGCAATGGGT
113457 P C S ATGACGTGGCAGACGCACAGGGAGAAACCY
113457 P T S CGCGCCGAGGACACAGGGAGAAACCGY
113457 T C S GGCACGGTTTCTCCCCTGTGCCCCATTGCTAACATTTCTCCTTCGAGTTGGCATGCCA
113457 T T S GGCACGGTTTCTCCCTGTGTCCCCATTGCTAACATTTCTCCTTCGAGTTGGCATGCCA
113457 IS [CT] AGCAAGGCTGCTCCATTTTACCTAACAATACCATACCTACTGGCACGGTTTCTCCCTGTG[CT]CCCATTGCTAACATTTCTCCTTCGAGTTGGCATGCCAAGGAAAGCACAGTGAAAAATGTC
113458 I S GGAAGCCCGCAGTTCTGTAACTTGCAGTGTA
113458 P G S ATGACGTGGCAGACCGTAACCAAGTGTGCATTY
113458 P A S CGCGCCGAGGTGTAACCAAGTGTGCATTTY
113458 T G S ACAGAAATGCACACTTGGTTACAGACACTGCAAGTTACAGAACTGCGGGCTTCCGG
113458 T A S ACAGAAATGCACACTTGGTTACAACACTGCAAGTTACAGAACTGCGGGCTTCCGG
113458 IS [GA] GCTGCACTGACTGTGAACTGGCTTCGTCAAATTCCTAAACAGAAATGCACACTTGGTTAC[GA]ACACTGCAAGTTACAGAACTGCGGGCTTCCGGATCAACGCTACTTATACATTTACTGTCA
113459 I A CCACACTGCAAGTTACAGAACTGCGGGCTTCA
113459 P C A ATGACGTGGCAGACCGGATCAACGCTACTTATACY
113459 P T A CGCGCCGAGGTGGATCAACGCTACTTATACY
113459 T C A AAATGTATAAGTAGCGTTGATCCGAAGCCCGCAGTTCTGTAACTTGCAGTGTCGTA
113459 T T A AAATGTATAAGTAGCGTTGATCCAGAAGCCCGCAGTTCTGTAACTTGCAGTGTCGTA
113459 IS [CT] ATTCCTAAACAGAAATGCACACTTGGTTACGACACTGCAAGTTACAGAACTGCGGGCTTC[CT]GGATCAACGCTACTTATACATTTACTGTCACCCACTATGTAGGAGGGTGCATCACTTGGT
113460 I A CCCACTATGTAGGAGGGTGCATCACTTGGTAAAAAGAA
113460 P C A ATGACGTGGCAGACCGGTGGCTTTGCAGY
113460 P T A CGCGCCGAGGTGGTGGCTTTGCAGTY
113460 T C A TCTGACTGCAAAGCCACCGTCTTTTTACCAAGTGATGCACCCTCCTACATAGTGGGTG
113460 T T A TCTGACTGCAAAGCCACCATCTTTTTACCAAGTGATGCACCCTCCTACATAGTGGGTG
113460 IS [CT] CGCTACTATACATTTACTGTCACCCACTATGTAGGAGGGTGCATCACTTGGTAAAAAGA[CT]GGTGGCTTTGCAGTCAGACACACCTGTGCTCTAGCTGTTACCTTTCTGAGAAATGCCATC
113464 I S GCAGAGGGGTCCATGCAGGCTTTCCATT
113464 P C S ATGACGTGGCAGACGGTAACTTAAAGGGAAACCTT
113464 P T S CGCGCCGAGGAGTAACTTAAAGGGAAACCTTCY
113464 T C S CTGTGAAGGTTTCCCTTTAAGTTACCATGCAAAGCCTGCATGCACCCCTCTGCGG
113464 T T S CTGTGAAGGTTTCCCTTTAAGTTACTATGCAAAGCCTGCATGCACCCCTCTGCGG

FIGURE 129G

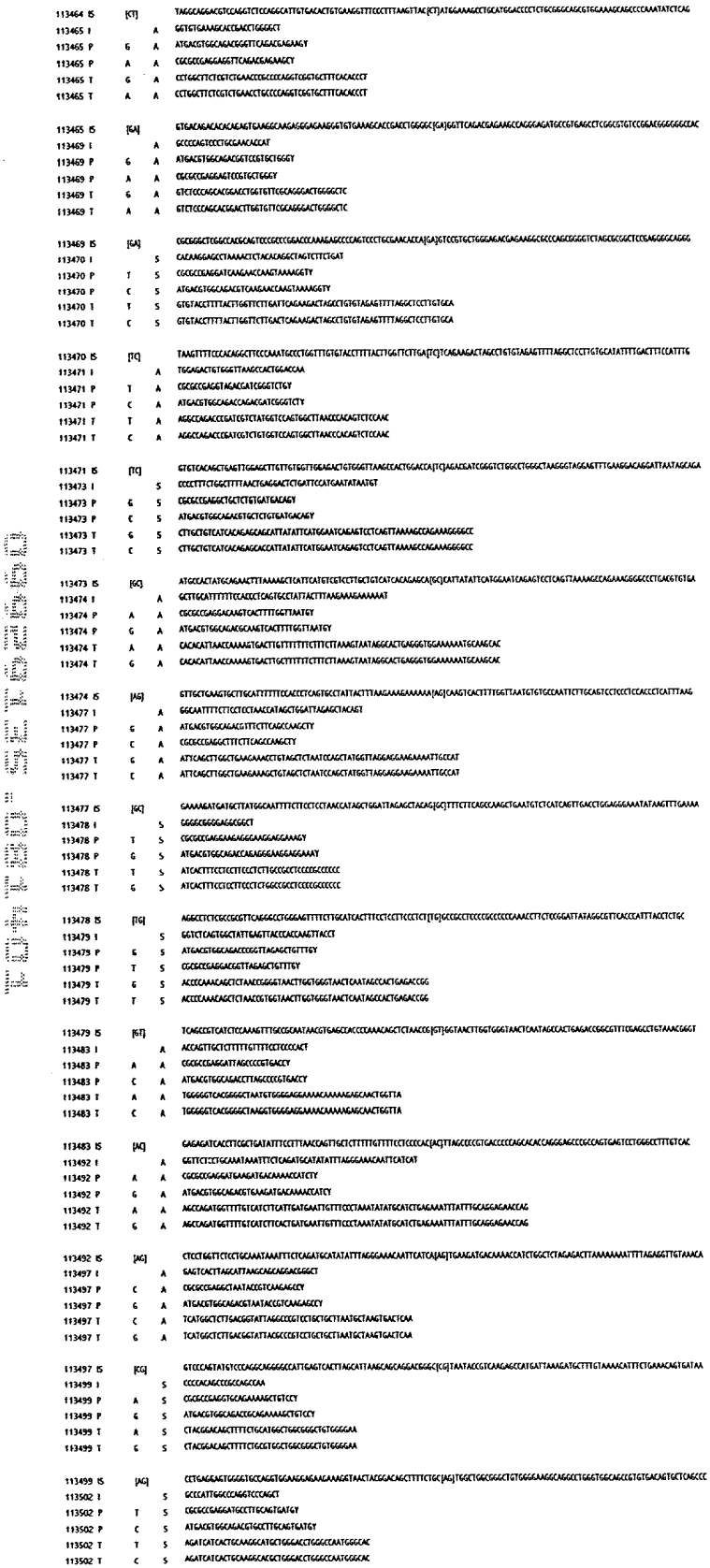
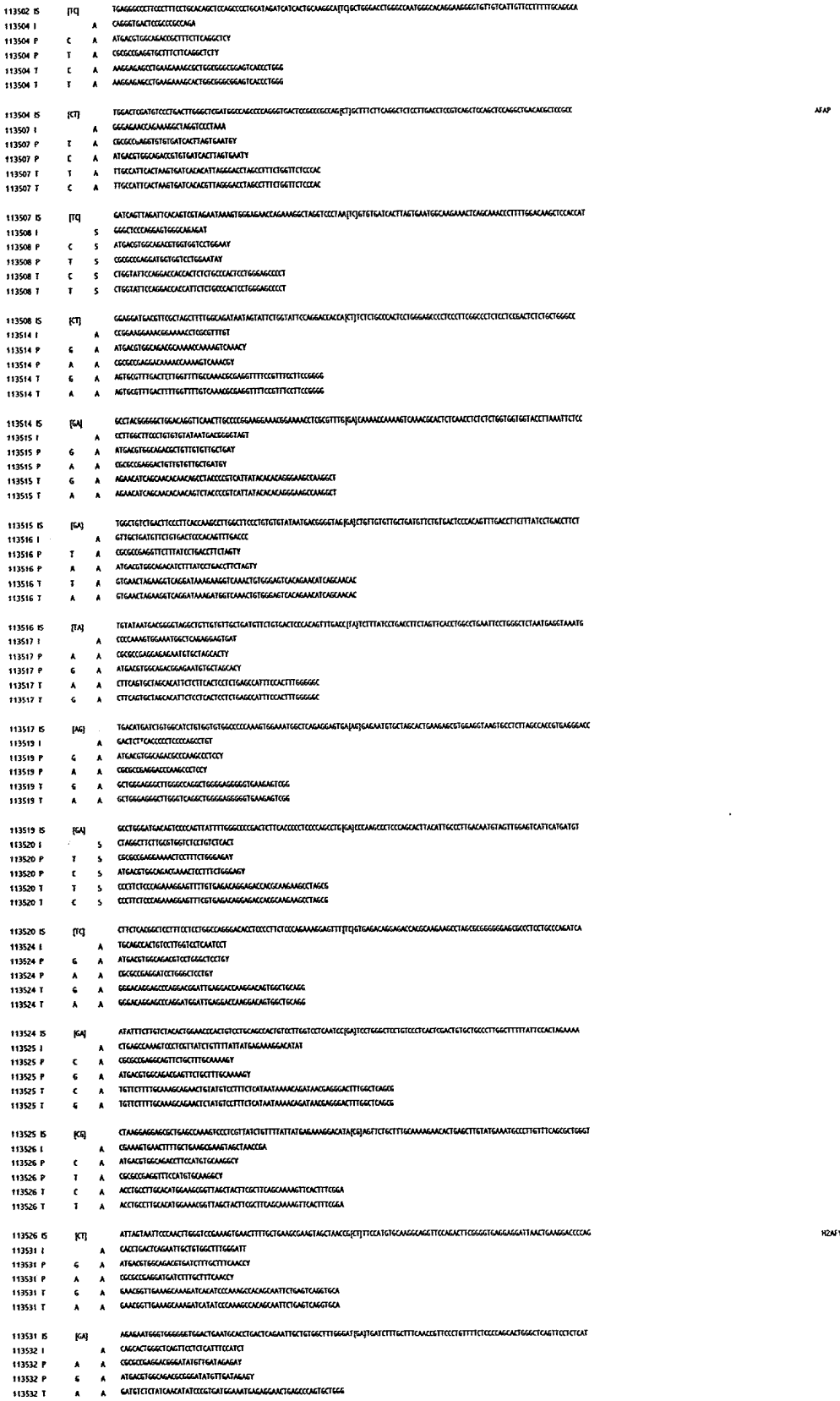
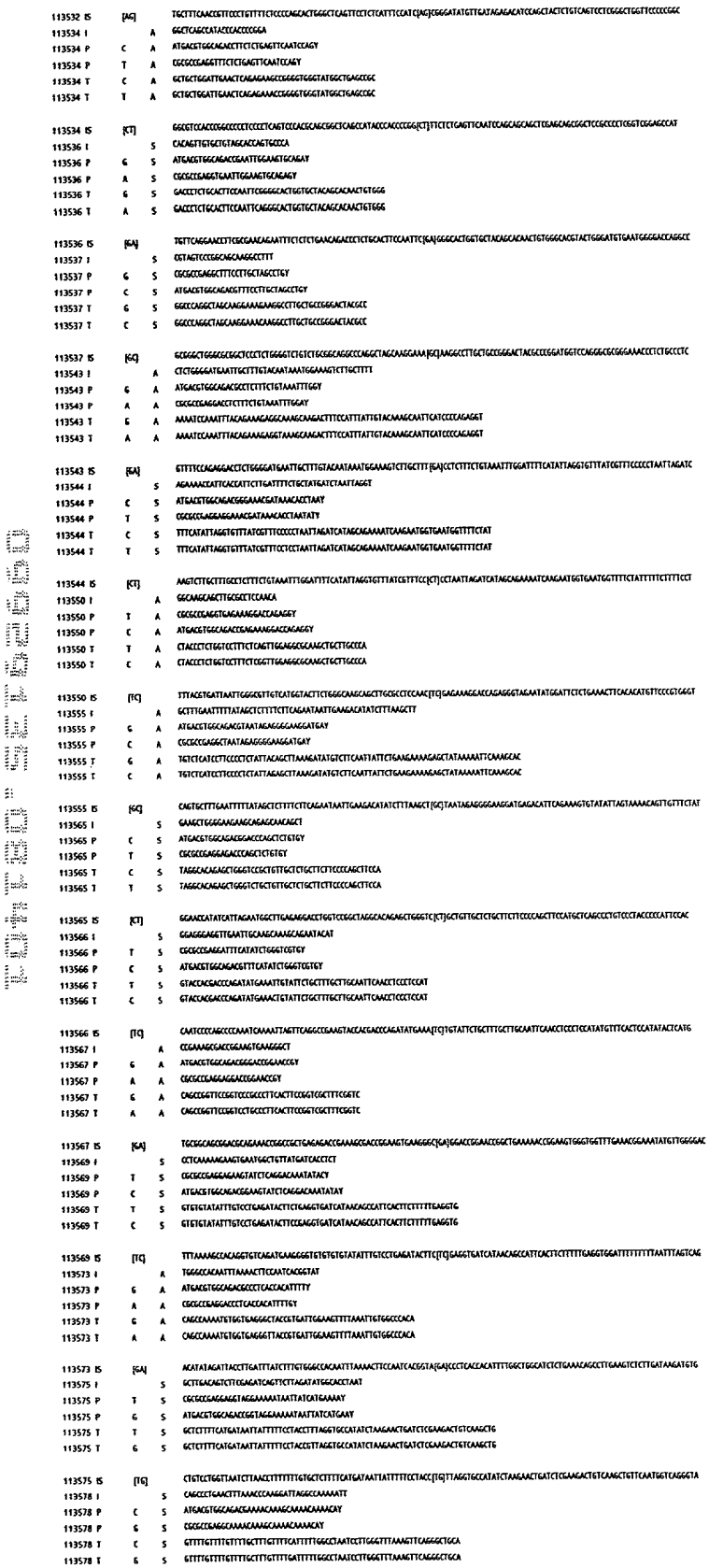
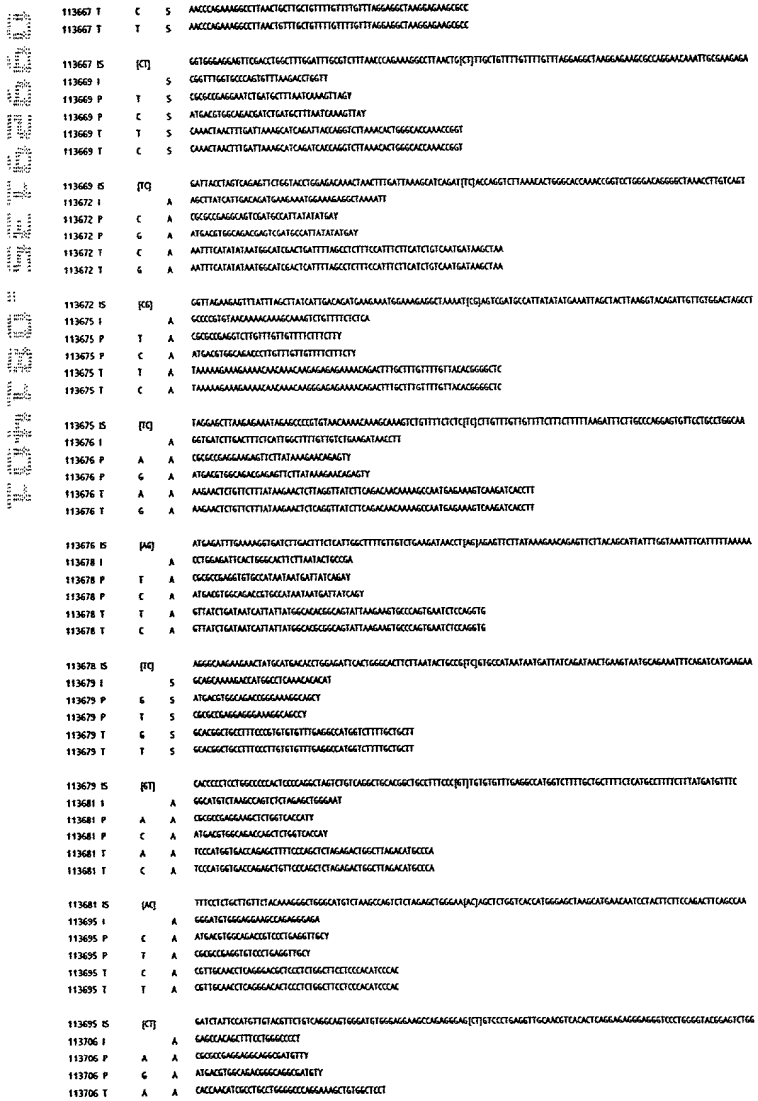


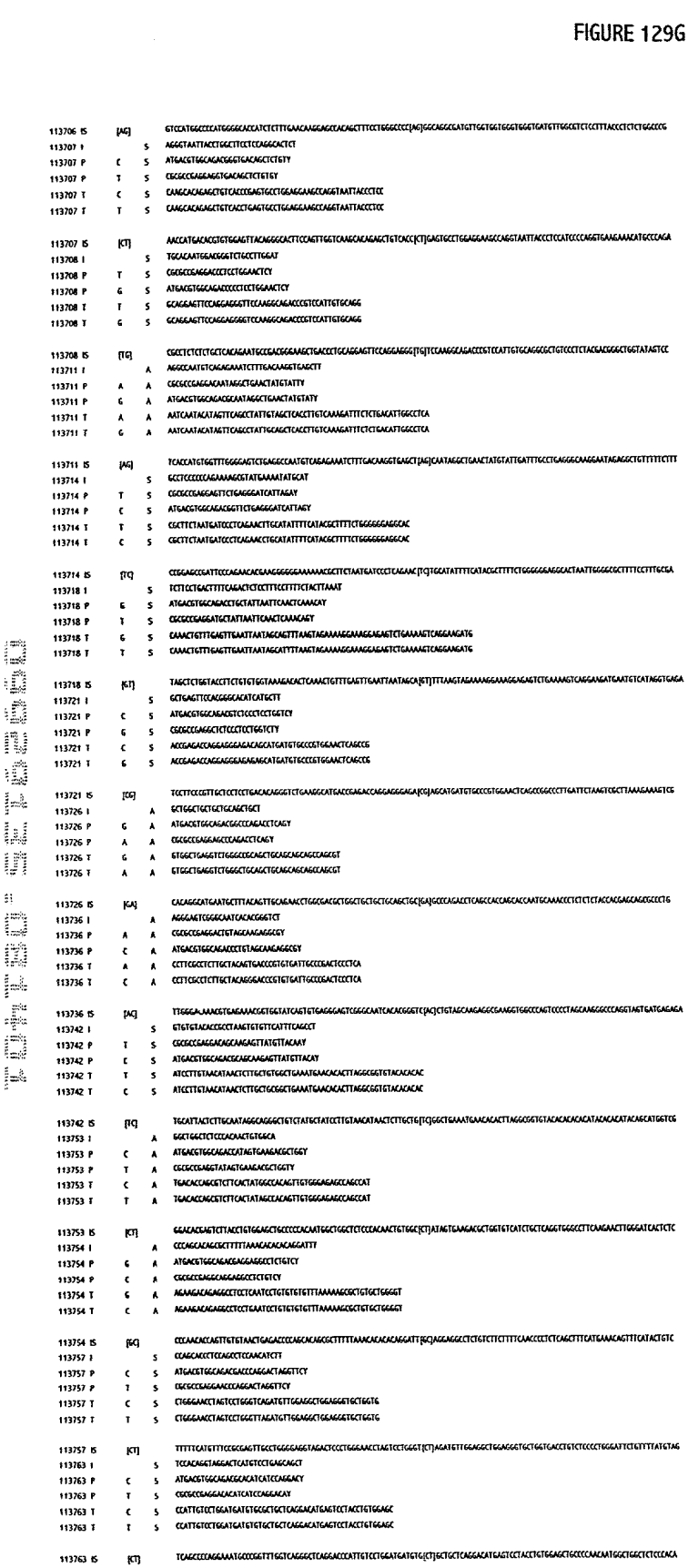
FIGURE 129G


113502 IS [TC] TGAGGCCCTTCCCTTTCCTGCACAGCTCCAGCCCCTGCATAGATCATCACTGCAAGGCA[TC]GCTGGGACCTGGGCCAATGGGCACAGGAAGGGGTGTTGTCATTGTTCCTTTTTGCAGGCA
113504 I A CAGGGTGACTCCGCCCGCCAGA
113504 P C A ATGACGTGGCAGACCGCTTTCTTCAGGCTCY
113504 P T A CGCGCCGAGGTGCTTTCTTCAGGCTCTY
113504 T C A AAGGAGAGCCTGAAGAAAGCGCTGGCGGGCCGGAGTCACCCTGGG
113504 T T A AAGGAGAGCCTGAAGAAAGCACTGGCGGGCCGGAGTCACCCTGGG
113504 IS [CT] TGGACTCGATGTCCCTGACTTGGGCTCGATGGCCAGCCCCAGGGTGACTCCGCCCCGCCAG[CT]GCTTTCTTCAGGCTCTCCTTGACCTCCGTCAGCTCCAGCTCCAGGCTGACAGCTCCGCC AFAP
113507 I A GGGAGAACCAGAAAGGCTAGGTCCCTAAA
113507 P T A CGCGCCGAGGTGTGTGATCACTTAGTGAATGY
113507 P C A ATGACGTGGCAGACCGTGTGATCACTTAGTGAATY
113507 T T A TTGCCATTCACTAAGTGATCACACATTAGGGACCTAGCCTTTCTGGTTCTCCCAC
113507 T C A TTGCCATTCACTAAGTGATCACACGTTAGGGACCTAGCCTTTCTGGTTCTCCCAC
113507 IS [TC] GATCAGTTAAATTCACAGTGGTAGAATAAAGTGGGAGAACCAGAAAGGCTAGGTCCCTAA[TC]GTGTGATCACTTAGTGAATGGCAAGAAACTCAGCAAACCCTTTTGGACAAGCTCCACCAT
113508 I S GGGCTCCCAGGAGTGGGCAGAGAT
113508 P C S ATGACGTGGCAGACGTGGTGGTCCTGGAAY
113508 P T S CGCGCCCAGGATGGTGGTCCTGGAATAY
113508 T C S CTGGTATTCCAGGACCACACTCTCTGCCCACTCCTGGGAGCCCCT
113508 T T S CTGGTATTCCAGGACCACCATTCTCTGCCCACTCCTGGGAGCCCCT
113508 IS [CT] GGAGGATGACGTTCGCTAGCTTTTGGCAGATAATAGTATTCTGGTATTCCAGGACTACCA[CT]TCTCTGCCCACTCCTGGGAGCCCCTCCCCTTCGGCCCTCTCCTCCGACTCTCTGCTGGGCC
113514 I A CCGGAAGGAAACGGAAAACCTCGGGTTTGT
113514 P G A ATGACGTGGCAGAGCGAAAACCAAAAGTCAAACY
113514 P A A CGCGCCCAGGACAAAACCAAAAGTCAAACGY
113514 T G A AGTGCGTTTCACTTTTGGTTTTGTCAAACGCGAAGTTTTCCGTTTCTTCCTTCCGGGG
113514 T A A AGTGCGTTTCACTTTTGGTTTTGTCAAACGCGAAGTTTTCCGTTTCTTCCTTCCGGGG
113514 IS [GA] GCCTACGGGGGCTGCACAGGTTCAACTTGCCCCGGAAGGAAACGGAAAACCTCGCGTTTG[GA]CAAAACCAAAAGTCAAACGCACTCTCAACCTCTCTCTGGTGGTGGTACCTTAAATTCTCC
113515 I A CCTTGGCTTCCCTGTGTGTATAATGACGGGGTAGT
113515 P G A ATGACGTGGCAGACGCTGTTGTGTTGCTGAY
113515 P A A CGCGCCGAGGACTGTTGTGTTGCTGATGY
113515 T G A AGAACATCAGCAACACAACAGCCTACCCCGTCATTATACACACAGGGAAGCCAAGGCT
113515 T A A AGAACATCAGCAACACAACAGTCTACCCCGTCATTATACACACAGGGAAGCCAAGGCT
113515 IS [GA] TGGCTGTCTGACTCCCTTCACCAAGCCTTGGCTTCCCTGTGTGTATAATGACGGGGTAG[GA]CTGTTGTGTTGCTGATGTTCTGTGACTCCCACAGTTTGACCTTCTTTATCCTGACCTTCT
113516 I A GTTGCTGATGTTCTGTGACTCCCACAGTTTGACCC
113516 P T A CGCGCCGAGGTTCTTTATCCTGACCTTCTAGTY
113516 P A A ATGACGTGGCAGACATCTTTATCCTGACCTTCTAGTY
113516 T T A GTGAACTAGAAGGTCAGGATAAAGAAGGTCAAACTGTGGGAGTCACAGAAACATCAGCAACAC
113516 T A A GTGAACTAGAAGGTCAGGATAAAGATGGTCAAACTGTGGGAGTCACAGAAACATCAGCAACAC
113516 IS [TA] TGTATAATGACGGGGTAGGCTGTTGTGTTGCTGATGTTCTGTGACTCCCACAGTTTGACC[TA]TCTTTATCCTGACCTTCTAGTTCACCTGGCCTGAATTCCTGGGCTCTAATGAGGTAAATG
113517 I A CCCCAAAGTGGAAATGGCTCAGAGGAGTGAT
113517 P A A CGCGCCGAGGAGCAATGTGCTAGCACTY
113517 P G A ATGACGTGGCAGACGGAGAATGTGCTAGCACY
113517 T A A CTTCAGTGCTAGCACATTCTCTTCACTCCTCTGAGCCATTTCCACTTTGGGGGC
113517 T G A CTTCAGTGCTAGCACATTCTCCTCACTCCTCTGAGCCATTTCCACTTTGGGGGC
113517 IS [AG] TGACATGATCTGTGGCATCTGTGGTGTGGCCCCCAAAGTGGAAATGGCTCAGAGGAGTGA[AG]GAGAATGTGCTAGCACTGAAGAGCGTGGAGGTAAGTGCCTCTTAGCCACCGTGAGGGACC
113519 I A GACTCT*CACCCCCTCCCCAGCCTGT
113519 P G A ATGACGTGGCAGACGCCCAAGCCCTCCY
113519 P A A CGCGCCGAGGACCCAAGCCCTCCY
113519 T G A GCTGGGAGGGCTTGGGCCAGGCTGGGGAGGGGGTGAAGAGTCGG
113519 T A A GCTGGGAGGGCTTGGCTCAGCTGGGGAGGGGGTGAAGAGTCGG
113519 IS [GA] GCCTGGGATGACAGTCCCCAGTTATTTTGGGCCCCGACTCTTCACCCCCTCCCCAGCCTG[GA]CCCAAGCCCTCCCAGCACTTACATTGCCCTTGACAATGTAGTTGGAGTCATTCATGATGT
113520 I S CTAGGCTTCTTGGGTGGTCTCCTGTCTCACT
113520 P T S CGCGCCGAGGAAAACTCCTTTCTGGGAGAY
113520 P C S ATGACGTGGCAGACAAACTCCTTTCTGGGAGY
113520 T T S CCCTTCTCCCAGAAAGGAGTTTTGTGAGACAGGAGACCACGCAAGAAGCCTAGCG
113520 T C S CCCTTCTCCCAGAAAGGAGTTTCGTGAGACAGGAGACCACGCAAGAAGCCTAGCG
113520 IS [TC] CTTCTCAGGGCTCCTTTCCTCCTGGCCAGGGACACCTCCCCTTCTCCCAGAAAGGAGTTTT[TC]GTGAGACAGGAGACCACGCAAGAAGCCTAGCGCGGGGGGGAGCGCCTCCTGCCCAGATCA
113524 I A TGCAGCCACTGTCCTTGGTCCTCAATCCT
113524 P G A ATGACGTGGCAGACGCTCCTGGGCTCCTGY
113524 P A A CGCGCCGAGGATCCTGGGCTCCTGY
113524 T G A GGGACAGGAGCCCAGGACGGATTGAGGACCAAGGACAGTGGCTGCAGG
113524 T A A GGGACAGGAGCCCAGGATGGATTGAGGACCAAGGACAGTGGCTGCAGG
113524 IS [GA] ATATTTCTTGTCTCACACTGGAACCCACTGTCCTGCAGCCACTGTCCTTGGTCCTCAATCC[GA]TCCTGGGCTCCTGTCCCTCACTCGACTGTGCTGCCCTTGGCTTTTTATTCCACTAGAAAA
113525 I A CTGAGCCAAAGTCCCTCGTTATCTGTTTTATTATGAGAAAGGACATAT
113525 P C A CGCGCCGAGGCAGTTCTGCTTTGCAAAAGY
113525 P G A ATGACGTGGCAGACGAGTTCTGCTTTGCAAAAGY
113525 T C A TGTTCTTTTGCAAAGCAGAACTGTATGTCCTTTCTCATAATAAAACAGATAACGAGGGACTTTGGCTCAGCG
113525 T G A TGTTCTTTTGCAAAGCAGAACTCTATGTCCTTTCTCATAATAAAACAGATAACGAGGGACTTTGGCTCAGCG
113525 IS [CG] CTAAGGAGGAGCGCTGAGCCAAAGTCCCTCGTTATCTGTTTTATTATGAGAAAGGACATA[CG]AGTTCTGCTTTGCAAAAGAACACTGAGCTTGTATGAAATGCCCTTGTTTCAGCGCTGGGT
113526 I A CGAAAGTGAACTTTTGCTGAAGCGAAGTAGCTAACCGA
113526 P C A ATGACGTGGCAGACCTTCCATGTGCAAGGCY
113526 P T A CGCGCCGAGGTTTCCATGTGCAAGGCY
113526 T C A ACCTGCCTTGCACATGGAAGCGGTTAGCTACTTCGCTTCAGCAAAAGTTCACTTTCGGA
113526 T T A ACCTGCCTTGCACATGGAAACGGTTAGCTACTTCGCTTCAGCAAAAGTTCACTTTCGGA
113526 IS [CT] ATTAGTAATTCCCAACTTGGGTCCGAAAGTGAACTTTTGCTGAAGCGAAGTAGCTAACCG[CT]TTCCATGTGCAAGGCAGGTTCCAGACTTCGGGGTGAGGAGGATTAACTGAAGGACCCCAG H2AFY
113531 I A CACCTGACTCAGAATTGCTGTGGCTTTGGGATT
113531 P G A ATGACGTGGCAGACGTGATCTTTGCTTTCAACCY
113531 P A A CGCGCCGAGGATGATCTTTGCTTTCAACCY
113531 T G A GAACGGTTGAAAGCAAAGATCACATCCCAAAGCCACAGCAATTCTGAGTCAGGTGCA
113531 T A A GAACGGTTGAAAGCAAAGATCATATCCCAAAGCCACAGCAATTCTGAGTCAGGTGCA
113531 IS [GA] AGAGAATGGGTGGGGGGTGGACTGAATGCACCTGACTCAGAATTGCTGTGGCTTTGGGAT[GA]TGATCTTTGCTTTCAACCGTTCCCTGTTTTCTCCCCAGCACTGGGCTCAGTTCCTCTCAT
113532 I A CAGCACTGGGCTCAGTTCCTCTCATTTCCATCT
113532 P A A CGCGCCGAGGACGGGATATGTTGATAGAGAY
113532 P G A ATGACGTGGCAGACGCGGGATATGTTGATAGAGY
113532 T A A GATGTCTCTATCAACATATCCCGTGATGCAAATGAGAGGAACTGAGCCCAGTGCTGGG
113532 T G A GATGTCTCTATCAACATATCCCGCGATGCAAATGAGAGGAACTGAGCCCAGTGCTGGG








113706 IS [AG] GTCCATGGCCCCATGGGGCACCATCTCTTTGAACAAGGAGCCACAGCTTTCCTGGGCCCC[AG]GGCAGGCCATGTTGGTGGTGGGTGGATGTTGGCCTCTCCTTTACCCTCTCTGGCCCG
113707 I S AGGGTAATTACCTGGCTTCCTCCAGGCACTCT
113707 P C S ATGACGTGGCAGCAGCGGTGCACAGCTCTGTY
113707 P T S CGCGCCGAGGAGGTGCACAGCTCTGTGY
113707 T C S CAAGCACAGAGCTGTCACCTGAGTGCCTGGAGGAAGCCAGGTAATTACCCTCC
113707 T T S CAAGCACAGAGCTGTCACCTGAGTGCCTGGAGGAAGCCAGGTAATTACCCTCC

113707 IS [CT] AACCATGACACGTGTGGAGTTACAGGGCACTTCCAGTTGGTCAAGCACAGAGCTGTCACC[CT]GAGTGCCTGGAGGAAGCCAGGTAATTACCCTCCATCCCCAGGTGAAGAAACATGCCCAGA
113708 I S TGCACAATGGACGGGTCTGCCTTGGAT
113708 P T S CGCGCCGAGGACCCTCCTGGAACTCY
113708 P G S ATGACGTGGCAGACCCCCTCCTGGAACTCY
113708 T T S GCAGGAGTTCCAGGAGGGTTCCAAGGCAGACCCGTCCATTGTGCAGG
113708 T G S GCAGGAGTTCCAGGAGGGGTCCAAGGCAGACCCGTCCATTGTGCAGG

113708 IS [TG] CGCCTCTCTCTGCTCACAGAATGCCGACGGGAAGCTGACCCTGCAGGAGTTCCAGGAGGG[TG]TCCAAGGCAGACCCGTCCATTGTGCAGGCGCTGTCCCTCTACGACGGGCTGGTATAGTCC
113711 I A AGGCCAATGTCAGAGAAATCTTTGACAAGGTGAGCTT
113711 P A A CGCGCCGAGGACAATAGGCTGAACTATGTATTY
113711 P G A ATGACGTGGCAGACGCAATAGGCTGAACTATGTATY
113711 T A A AATCAATACATAGTTCAGCCTATTGTAGCTCACCTTGTCAAAGATTTCTCTGACATTGGCCTCA
113711 T G A AATCAATACATAGTTCAGCCTATTGCAGCTCACCTTGTCAAAGATTTCTCTGACATTGGCCTCA

113711 IS [AG] TCACCATGTGGTTTGGGGAGTCTGAGGCCAATGTCAGAGAAATCTTTGACAAGGTGAGCT[AG]CAATAGGCTGAACTATGTATTGATTTGCCTCAGGGCAAGGAATAGAGGCTGTTTTTCTTT
113714 I S GCCTCCCCCCAGAAAAGCGTATGAAAATATGCAT
113714 P T S CGCGCCGAGGAGTTCTGAGGGATCATTAGAY
113714 P C S ATGACGTGGCAGACGGTTCTGAGGGATCATTAGY
113714 T T S CGCTTCTAATGATCCCTCAGAACTTGCATATTTTCATACGCTTTTCTGGGGGGAGGCAC
113714 T C S CGCTTCTAATGATCCCTCAGAACCTGCATATTTTCATACGCTTTTCTGGGGGGAGGCAC

113714 IS [TC] CCGGAGCCGATTCCCAGAACACGAAGGGGGGAAAAAACGCTTCTAATGATCCCTCAGAAC[TC]TGCATATTTTCATACGCTTTTCTGGGGGGAGGCACTAATTGGGGCGCTTTTCCTTTGCGA
113718 I S TCTTCCTGACTTTTCAGACTCTCCTTTCCTTTTCTACTTAAAT
113718 P G S ATGACGTGGCAGACCTGCTATTAATTCAACTCAAACAY
113718 P T S CGCGCCGAGGATGCTATTAATTCAACTCAAACAGY
113718 T G S CAAACTGTTTGAGTTGAATTAATAGCAGTTTAAGTAGAAAAGGAAAGGAGAGTCTGAAAAGTCAGGAAGATG
113718 T T S CAAACTGTTTGAGTTGAATTAATAGCATTTTAAGTAGAAAAGGAAAGGAGAGTCTGAAAAGTCAGGAAGATG

113718 IS [GT] TAGCTCTGGTACCTTCTGTGTGGTAAAGACACTCAAACTGTTTGAGTTGAATTAATAGCA[GT]TTTAAGTAGAAAAGGAAAGGAGAGTCTGAAAAGTCAGGAAGATGAATGTCATAGGTGAGA
113721 I S GCTGAGTTCCAGGGGCACATCATGCTT
113721 P C S ATGACGTGGCAGACGTCTCCCCTCCTGGTCY
113721 P G S CGCGCCGAGGCTCTCCCTCCTGGTCTY
113721 T C S ACCGAGACCAGGAGGGAGACAGCATGATGTGCCCGTGGAACTCAGCCG
113721 T G S ACCGAGACCAGGAGGGAGAGAGCATGATGTGCCCGTGGAACTCAGCCG

113721 IS [CG] TCCTTCCCGTTGCTCCTCCTGACACAGGGTCTGAAGGCATGACCGAGACCAGGAGGGAGA[CG]AGCATGATGTGCCCGTGGAACTCAGCCGGCCCTTGATTCTAAGTCGCTTAAAGAAAGTCG
113726 I A GCTGGCTGCTGCTGCAGCTGCT
113726 P G A ATGACGTGGCAGACGGCCCAGACCTCAGY
113726 P A A CGCGCCGAGGAGCCCAGACCTCAGY
113726 T G A GTGGCTGAGGTCTGGGCCGCCAGCTGCAGCAGCAGCCAGCGT
113726 T A A GTGGCTGAGGTCTGGGCTGCAGCTGCAGCAGCAGCCAGCGT

113726 IS [GA] CACAGGCATGAATGCTTTACAGTTGCAGAAACCTGGCGACGCTGGCTGCTGCAGCTGC[GA]GCCCAGACCTCAGCCACCAGCACCAATGCAAACCCTCTCTCTACCACGAGCAGGCCCTG
113736 I A AGGGAGTCGGGCAATCACACGGGTCT
113736 P A A CGCGCCGAGGAACTGTAGCAAGAGGCGY
113736 P C A ATGACGTGGCAGACCCTGTAGCAAGAGGCGY
113736 T A A CCTTCGCCTCTTGCTACAGGGACCCGTGTGATTGCCCGACTCCCTCA
113736 T C A CCTTCGCCTCTTGCTACAGGGACCCGTGTGATTGCCCGACTCCCTCA

113736 IS [AC] TTGGGA.AAACGTGAGAAACGGTGGTATCAGTGTGAGGGAGTCGGGCAATCACACGGGTC[AC]CTGTAGCAAGAGCCGAAGGTGGCCCAGTCCCCTAGCAAGGCCCAGGTAGTGATGAGAGA
113742 I S GTGTGTACACCGCCTAAGTGTGTTCATTTCAGCCT
113742 P T S CGCGCCGAGGACAGCAAGAGTTATGTTACAAY
113742 P C S ATGACGTGGCAGACGCAGCAAGAGTTATGTTACAY
113742 T T S ATCCTTGTAACATAACTCTTGCTGTGGCTGAAATGAACACACTTAGGCGGTGTACACACAC
113742 T C S ATCCTTGTAACATAACTCTTGCTGCGGCTGAAATGAACACACTTAGGCGGTGTACACACAC

113742 IS [TC] TGCATTACTCTTGCAATAGGCAGGGCTGTCTATGCTATCCTTGTAACATAACTCTTGCTG[TC]GGCTGAAATGAACACACTTAGGCGGTGTACACACACATACACATACAGCATGGTCG
113753 I A GGCTGGCTCTCCCACAACTGTGGCA
113753 P C A ATGACGTGGCAGACCATAGTGAAGAGCTGGY
113753 P T A CGCGCCGAGGTATAGTGAAGAGCTGGTY
113753 T C A TGACACCAGCGTCTTCACTATGGCCACAGTTGTGGGAGAGCCAGCCAT
113753 T T A TGACACCAGCGTCTTCACTATAGCCACAGTTGTGGGAGAGCCAGCCAT

113753 IS [CT] GGACACGAGTCTTACCTGTGGAGCTGCCCCCACAATGGCTGGCTCTCCCACAACTGTGGC[CT]ATAGTGAAGACGCTGGTGTCATCTGCTCAGGTGGGCCTTCAAGAACTTGGGATCACTCTC
113754 I A CCCAGCACAGCGCTTTTTAAACACACACAGGATTT
113754 P G A ATGACGTGGCAGACGAGGAGGCCTCTGTCY
113754 P C A CGCGCCGAGGCAGGAGGCCTCTGTCY
113754 T G A AGAAGACAGAGGCCTCCTCAATCCTGTGTGTGTTTAAAAAGCGCTGTGCTGGGGT
113754 T C A AGAAGACAGAGGCCTCCTGAATCCTGTGTGTGTTTAAAAAGCGCTGTGCTGGGGT

113754 IS [GC] CCCAACACCAGTTGTGTAACTGAGACCCCAGCACAGGCTTTTTAAACACACACAGGATT[GC]AGGAGGCCTCTGTCTTCTTTTCAACCCCTCTCAGCTTTCATGAAACAGTTTCATACTGTC
113757 I S CCAGCACCCTCCAGCCTCCAACATCTT
113757 P C S ATGACGTGGCAGACGACCAGGACTAGGTTCY
113757 P T S CGCGCCGAGGAACCCAGGACTAGGTTCY
113757 T C S CTGGGAACCTAGTCCTGGGTCAGATGTTGGAGGCTGGAGGGTGCTGGTG
113757 T T S CTGGGAACCTAGTCCTGGGTTAGATGTTGGAGGCTGGAGGGTGCTGGTG

113757 IS [CT] TTTTTCATGTTTCGCGCAGTTGGCTGGGGAGGTAGACTCCCTGGGAACCTAGTCCTGGGT[CT]AGATGTTGGAGGCTGGAGGGTGCTGGTGACCTGTCTCCCCTGGGATTCTGTTTTATGTAG
113763 I S TCCACAGGTAGGACTCATGTCCTGAGCAGCT
113763 P C S ATGACGTGGCAGACGCACATCATCCAGGACY
113763 P T S CGCGCCGAGGACACATCATCCAGGACAY
113763 T C S CCATTGTCCTGGATGATGTGCGCTGCTCAGGACATGAGTCCTACCTGTGGAGC
113763 T T S CCATTGTCCTGGATGATGTGCTGCTCAGGACATGAGTCCTACCTGTGGAGC

113763 IS [CT] TCAGCCCCAGGAAATGCCCGGTTTGGTCAGGGCTCAGGACCCATTGTCCTGGATGATGTG[CT]GCTGCTCAGGACATGAGTCCTACCTGTGGAGCTGCCCCAACAATGGCTGGCTCTCCCACA DM8TI
113764 I S GGGGTGAGAGGATTATTTACCTACTGTCGATGGAGGTAACT
113764 P C S ATGACGTGGCAGACGTGATGGTCGACAACGY
113764 P T S CGCGCCCAGGATGATGGTCGACAACGTY
113764 T C S AGACACGTTGTCGACCATCACGTTACCTCCATCGACAGTAGGTAAATAATCCTCTCACCCCTC
113764 T T S AGACACGTTGTCGACCATCATGTTACCTCCATCGACAGTAGGTAAATAATCCTCTCACCCCTC

FIGURE 129G

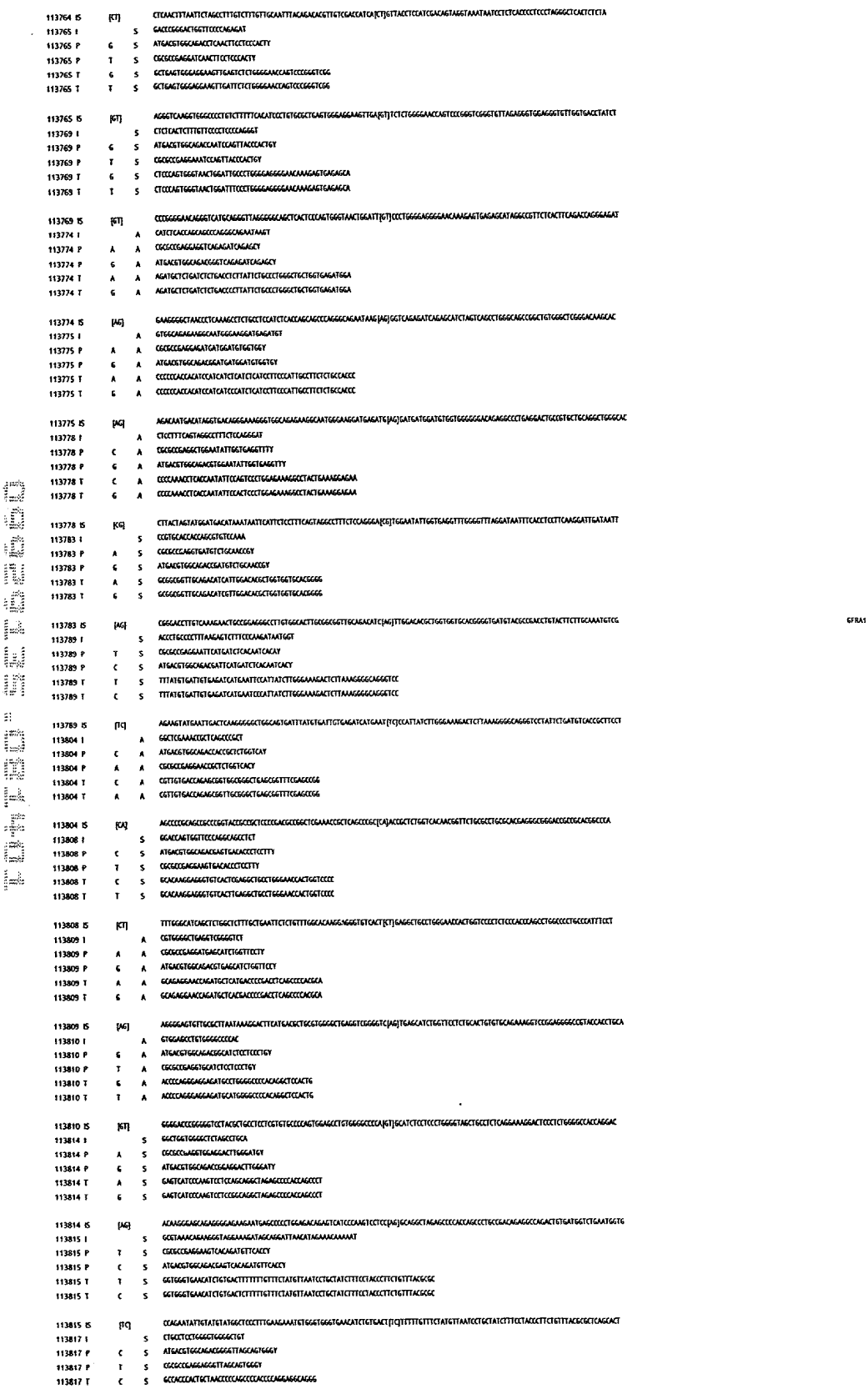
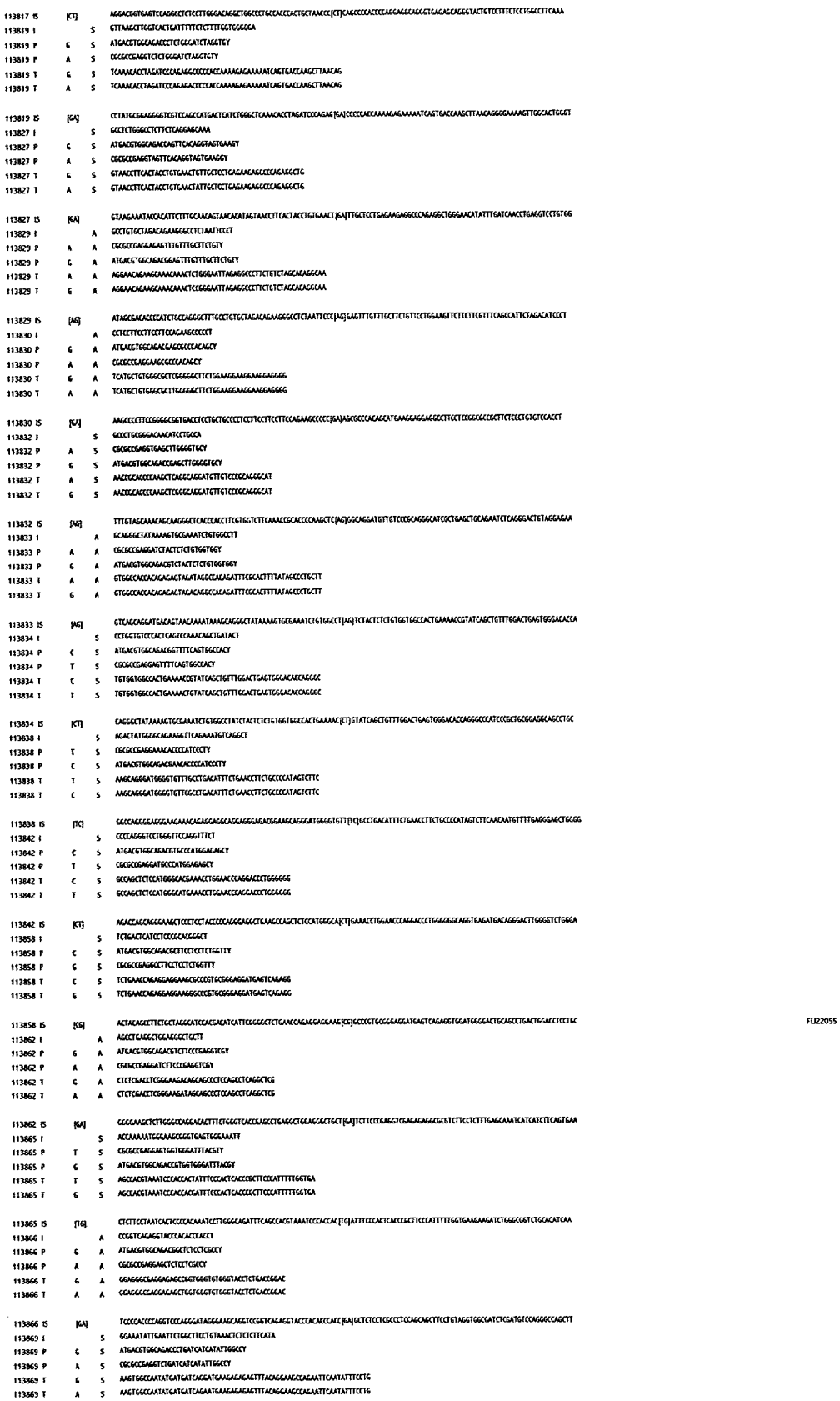
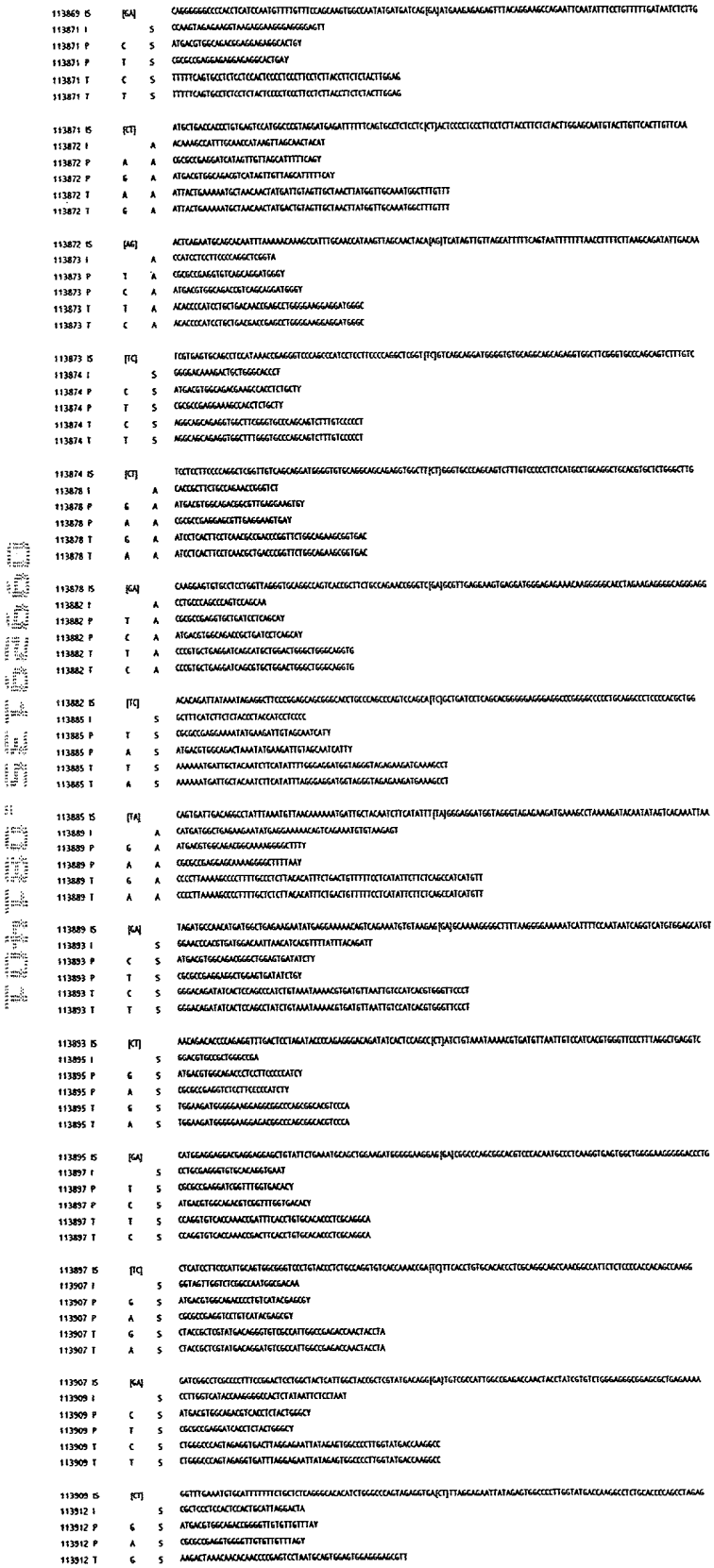


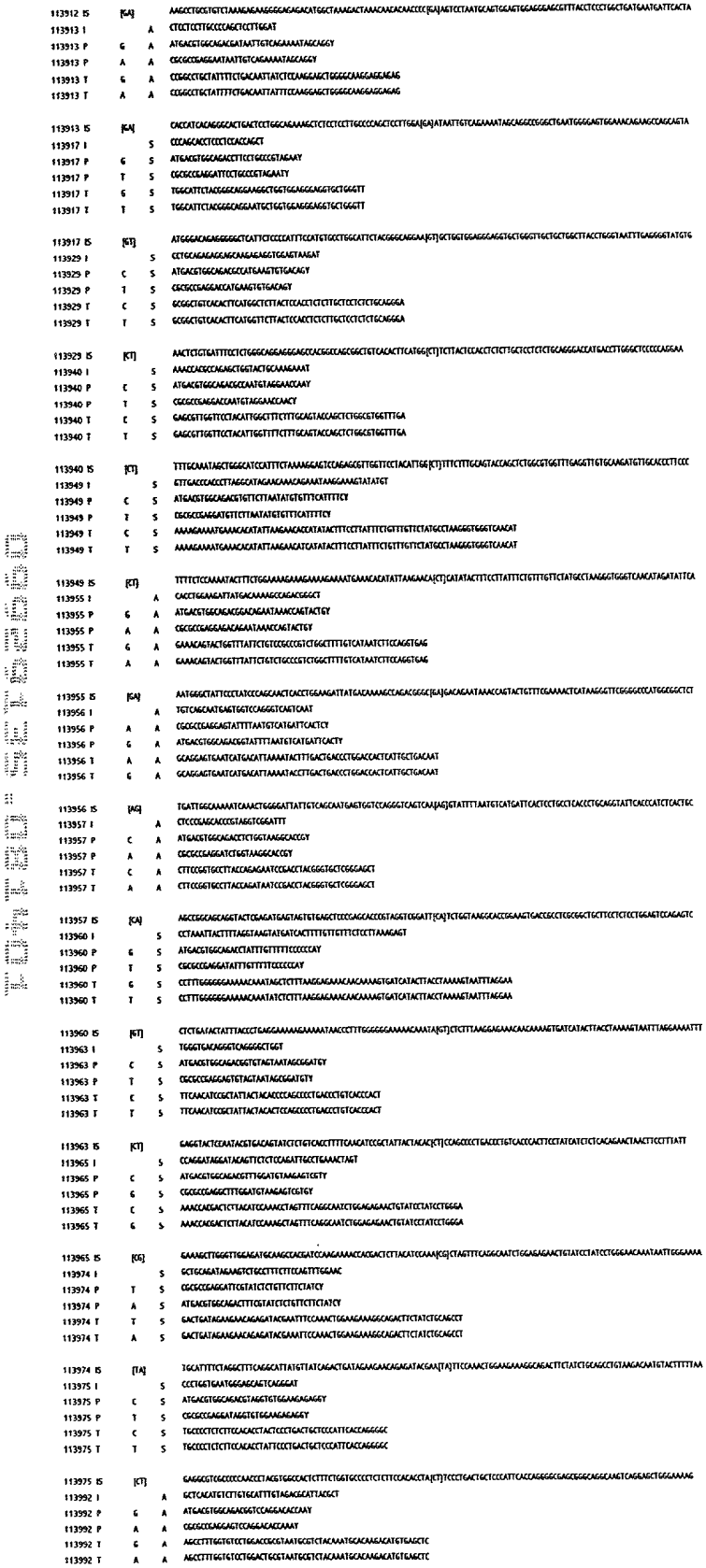
FIGURE 129G



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FIGURE 129G


113869 IS [GA]
113871 I S
113871 P C S
113871 P T S
113871 T C S
113871 T T S
113871 IS [CT]
113872 I A
113872 P A A
113872 P G A
113872 T A A
113872 T G A
113872 IS [AG]
113873 I A
113873 P T A
113873 P C A
113873 T T A
113873 T C A
113873 IS [TC]
113874 I S
113874 P C S
113874 P T S
113874 T C S
113874 T T S
113874 IS [CT]
113878 I A
113878 P G A
113878 P A A
113878 T G A
113878 T A A
113878 IS [GA]
113882 I A
113882 P T A
113882 P C A
113882 T T A
113882 T C A
113882 IS [TC]
113885 I S
113885 P T S
113885 P A S
113885 T T S
113885 T A S
113885 IS [TA]
113889 I A
113889 P G A
113889 P A A
113889 T G A
113889 T A A
113889 IS [GA]
113893 I S
113893 P C S
113893 P T S
113893 T C S
113893 T T S
113893 IS [CT]
113895 I S
113895 P G S
113895 P A S
113895 T G S
113895 T A S
113895 IS [GA]
113897 I S
113897 P T S
113897 P C S
113897 T T S
113897 T C S
113897 IS [TC]
113907 I S
113907 P G S
113907 P A S
113907 T G S
113907 T A S
113907 IS [GA]
113909 I S
113909 P C S
113909 P T S
113909 T C S
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113909 IS [CT]
113912 I S
113912 P G S
113912 P A S
113912 T G S
113912 T A S



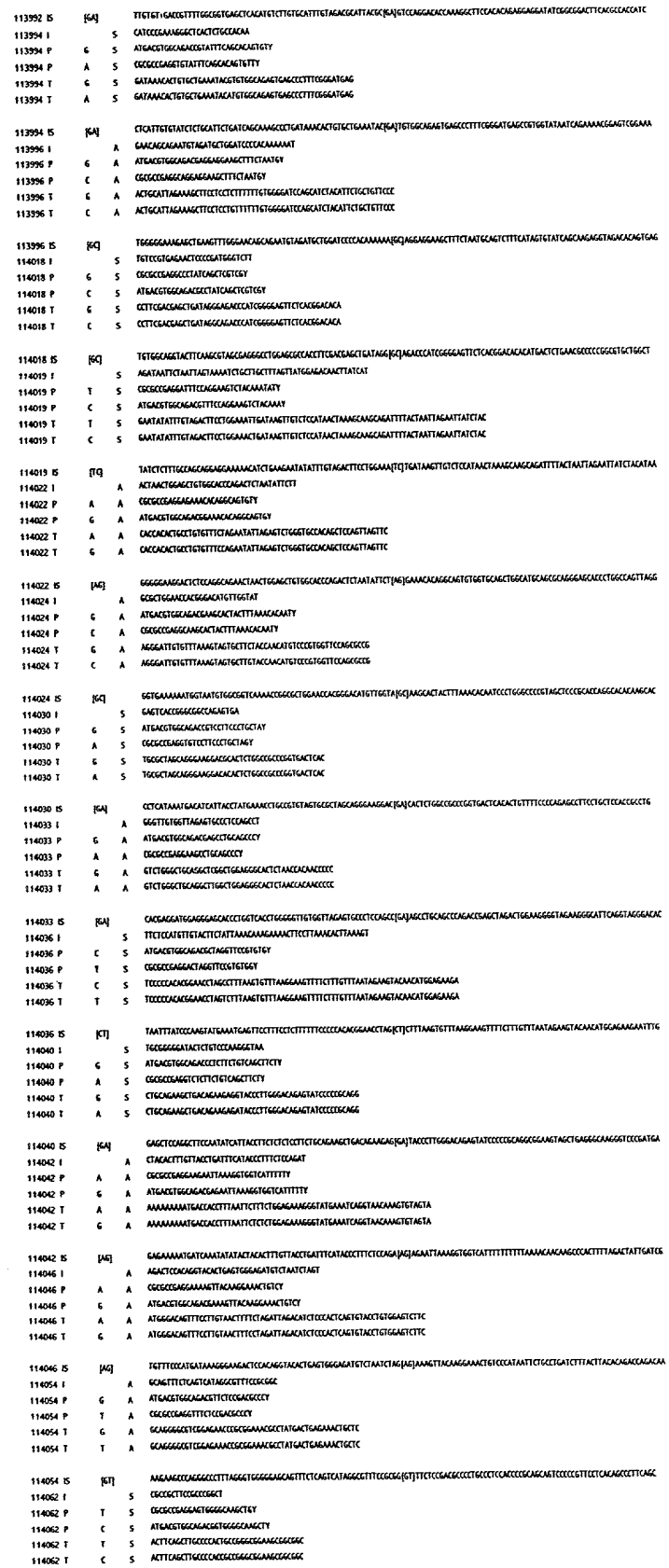


FIGURE 129G

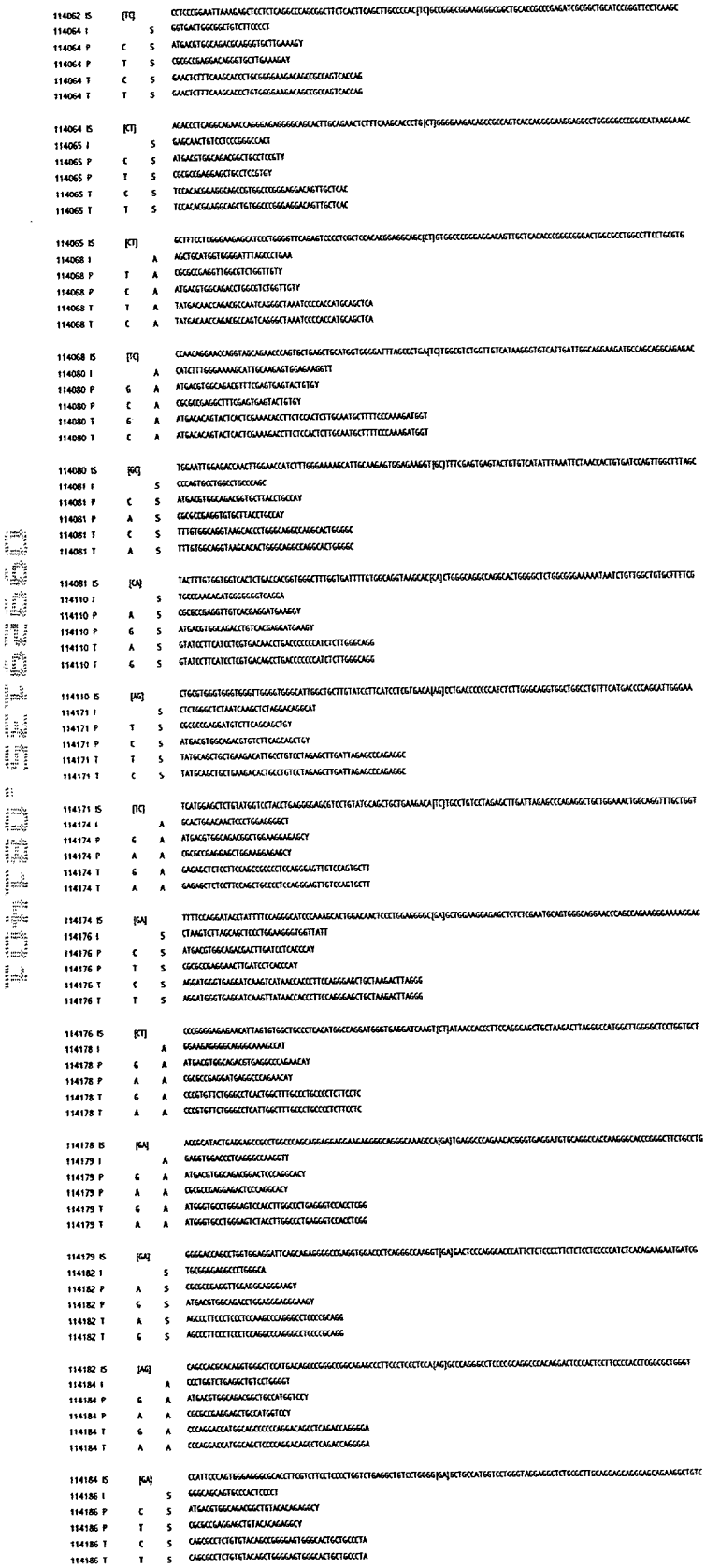
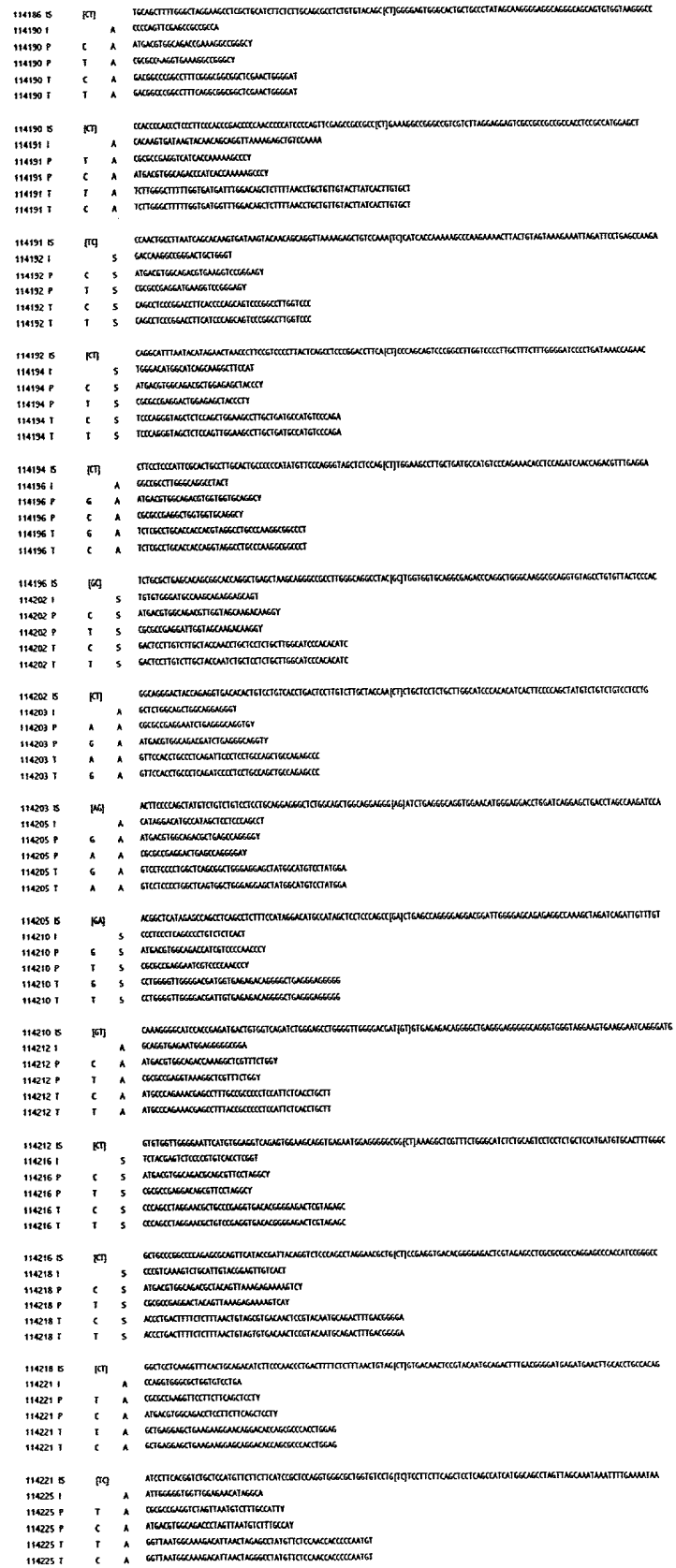
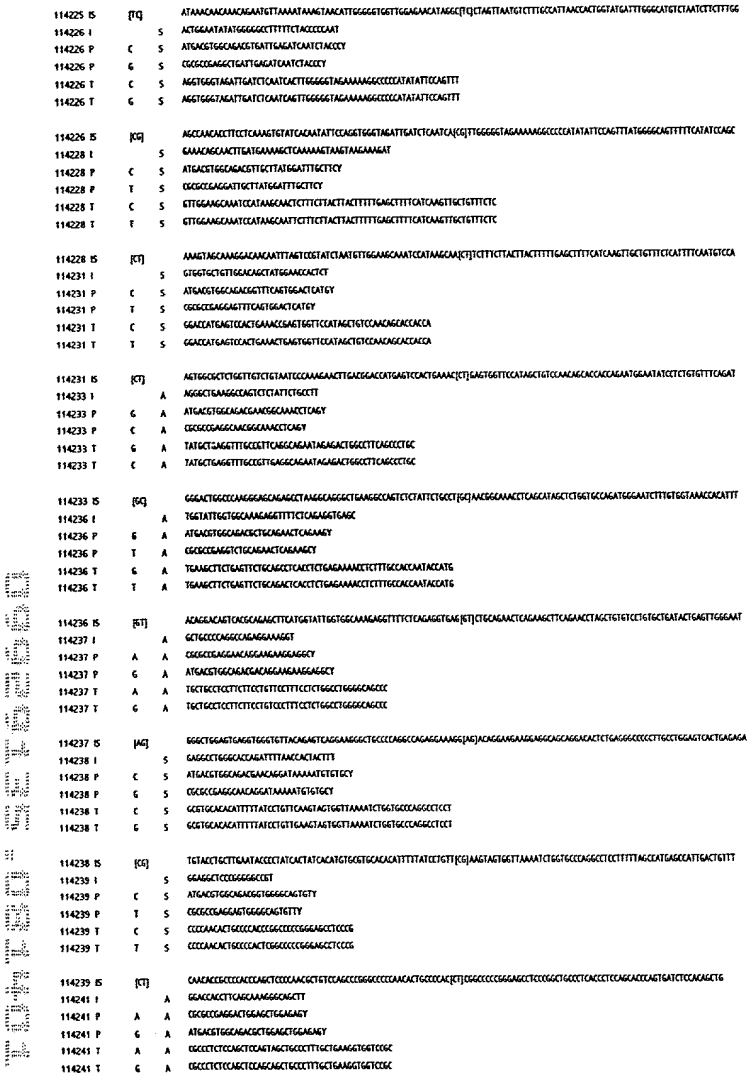

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114064 I S GGTGACTGGCGGCTGTCTTCCCCT
114064 P C S ATGACGTGGCAGACGCAGGGTGCTTGAAAGY
114064 P T S CGCGCCGAGGACAGGGTGCTTGAAAGAY
114064 T C S GAACTCTTTCAAGCACCCTGCGGGGGAAGACAGCCGCCAGTCACCAG
114064 T T S GAACTCTTTCAAGCACCCTGTGGGGAAGACAGCCGCCAGTCACCAG
114064 IS [CT] AGACCCTCAGGCAGAACCAGGGAGAGGGGCAGCACTTGCAGAACTCTTTCAAGCACCCTG[CT]GGGGAAGAGACAGCCGCCAGTCACCAGGGGAAGGAGGCCTGGGGGCCCGGCCATAAGGAAGC
114065 I S GAGCAACTGTCCTCCCGGGCCACT
114065 P C S ATGACGTGGCAGACGGCTGCCTCCGTY
114065 P T S CGCGCCGAGGAGCTGCCTCCGTGY
114065 T C S TCCACACGGAGGCAGCCGTGGCCGGGAAGGACAGTTGCTCAC
114065 T T S TCCACACGGAGGCAGCTGTGGCCCGGAAGGACAGTTGCTCAC
114065 IS [CT] GCTTTCCTCGGGAAGAGCATCCCTGGGGTTCAGAGTCCCCTCGCTCCACACGGAGGCAGC[CT]GTGGCCCGGGAAGGACAGTTGCTCACACCCGGGCGGGAACTGGCGCCTGGCCTTCCTGCGTG
114068 I A AGCTGCATGGTGGGGATTTAGCCCTGAA
114068 P T A CGCGCCCAGGTTGGGCTCTGGTTGTY
114068 P C A ATGACGTGGCAGACCTGGCCTCTGGTTGTY
114068 T T A TATGACAACCAGAGCCAATCAGGGCTAAATCCCCACCATGCAGCTCA
114068 T C A TATGACAACCAGAGCCAGTCAGGGCTAAATCCCCACCATGCAGCTCA
114068 IS [TC] CCAACAGGAACCAGGTAGCAGAACCCAGTGCTGAGCTGCATGGTGGGGATTTAGCCCTGA[TC]TGGCGTCTGTTGTCATAAGGGTGTCATTGATTGGCAGGAAGATGCCAGCAGGCAGAGAC
114080 I A CATCTTTGGGAAAAGCATTGCAAGAGTGGAGAAGGTT
114080 P G A ATGACGTGGCAGACGTTTCGAGTGAGTACTGTGY
114080 P C A CGCGCCGAGGCTTTCGAGTGAGTACTGTGY
114080 T G A ATGACACAGTACTCACTCGAAAACCTTCTCCACTCTTGCAATGCTTTTCCCAAAGATGGT
114080 T C A ATGACACAGTACTCACTCGAAAGACCTTCTCCACTCTTGCAATGCTTTTCCCAAAGATGGT
114080 IS [GC] TGGAATTGGAGACCAACTTGGAACCATCTTTGGGAAAAGCATTGCAAGAGTGGAGAAGGT[GC]TTTCGAGTGAGTACTGTGTCATATTTAAATTCTAACCACTGTGATCCAGTTGGCTTTAGC
114081 I S CCCAGTGCCTGGCCTGCCCAGC
114081 P C S ATGACGTGGCAGACGGTGCTTACCTGCCAY
114081 P A S CGCGCCGAGGTGTGCTTACCTGCCAY
114081 T C S TTTGTGGCAGGTAAGCACCCTGGGCAGGCCAGGCACTGGGGC
114081 T A S TTTGTGGCAGGTAAGCACACTGGGCAGGCCAGGCACTGGGGC
114081 IS [CA] TACTTTGTGGTGGTCACTCTGACCACGGTGGGCTTTGGTGATTTTGTGGCAGGTAAGCAC[CA]CTGGGCAGGCCAGGCACTGGGGCTCTGGCGGGAAAAATAATCTGTTGGCTGTGCTTTTCG
114110 I S TGCCCAAGACATGGGGGGGTCAGGA
114110 P A S CGCGCCGAGGTTGTCACGAGGATGAAGGY
114110 P G S ATGACGTGGCAGACCTGTCACGAGGATGAAGY
114110 T A S GTATCCTTCATCCTCGTGACAACCTGACCCCCCCATCTCTTGGGCAGG
114110 T G S GTATCCTTCATCCTCGTGACAGCCTGACCCCCCCATCTCTTGGGCAGG
114110 IS [AG] CTGCGTGGGTGGGTGGGTTGGGGTGGGCATTGGCTGCTTGTATCCTTCATCCTCGT[AG]CCTGACCCCCCCATCTCTTGGGCAGGTGGCTGGCCTGTTTCATGACCCCAGCATTGGGAA
114171 I S CTCTGGGCTCTAATCAAGCTCTAGGACAGGCAT
114171 P T S CGCGCCGAGGATGTCTTCAGCAGCTGY
114171 P C S ATGACGTGGCAGACGTGTCTTCAGCAGCTGY
114171 T T S TATGCAGCTGCTGAAGACATTGCCTGTCCTAGAGCTTGATTAGAGCCCAGAGGC
114171 T C S TATGCAGCTGCTGAAGACACTGCCTGTCCTAGAGCTTGATTAGAGCCCAGAGGC
114171 IS [TC] TCATGGAGCTCTGTATGGTCCTACCTGAGGGCAGGGTCCTGTATGCAGCTGCTGAAGACA[TC]TGCCTGTCCTAGAGCTTGATTAGAGCCCAGAGGCTGCTGGAAACTGGCAGGTTTGCTGGT
114174 I A GCACTGGACAACTCCCTGGAGGGCT
114174 P G A ATGACGTGGCAGACGGCTGGAAGGAAGACY
114174 P A A CGCGCCGAGGAGCTGGAAGGAGAGCY
114174 T G A GAGAGCTCTCCTTCCAGCCGCCCCTCCAGGGAGTTGTCCAGTGCTT
114174 T A A GAGAGCTCTCCTTCCAGCTGCCCCTCCAGGGAGTTGTCCAGTGCTT
114174 IS [GA] TTTTCCAGGATACCTATTTTCCCAGGGCATCCCAAAGCACTGGACAACTCCCTGGAGGGGC[GA]GCTGGAAGGAGAGAGCTCTCTCGAATGCAGTGGGCAGGAACCCAGCCAGAAGGGAAAAGGAG
114176 I S CTAAGTCTTAGCAGCTCCCTGGAAGGGTGGTTATT
114176 P C S ATGACGTGGCAGACGACTTGATCCTCACCCAY
114176 P T S CGCGCCGAGGAACTTGATCCTCACCCAY
114176 T C S AGGATGGGTGAGGATCAAGTCATAACCACCCTTCCAGGGAGCTGCTAAGACTTAGGG
114176 T T S AGGATGGGTGAGGATCAAGTTATAACCACCCTTCCAGGGAGCTGCTAAGACTTAGGG
114176 IS [CT] CCCGGGGAGAGAACATTAGTGTGGCTGCCCTCACATGGCCAGGATGGGTGAGGATCAAGT[CT]ATAACCACCCTTCCAGGGAGCTGCTAAGACTTAGGGCCATGGCTTGGGGCTCCTGGTGCT
114178 I A GGAAGAGGGGCAGGGCAAAGCCAT
114178 P G A ATGACGTGGCAGACGTGAGGCCCAGAACAY
114178 P A A CGCGCCGAGGATGAGGCCCAGAACAY
114178 T G A CCCGTGTTCTGGGGCTCACTGGCTTTGCCCTGCCCCTCTTCCTC
114178 T A A CCCGTGTTCTGGGGCTCATTGGCTTTGCCCTGCCCCTCTTCCTC
114178 IS [GA] ACCGCATACTGAGGAGCCGCCTGCCCAGCAGGAGGAGGAAGAGGGGCAGGGCAAAGCCA[GA]TGAGCCCAGAACACGGGTGAGGATGTGCAGGCCACCAAGGGCACCCGGGCTTCTGCCTG
114179 I A GAGGTGGACCCTCAGGGCCAAGGTT
114179 P G A ATGACGTGGCAGACGCACTCCCAGGCACY
114179 P A A CGCGCCCAGGAGACTCCCAGGCACY
114179 T G A ATGGGTGCCTGGGAGTCCACCTTGCCCCTGAGGGTCCACCTCGG
114179 T A A ATGGGTGCCTGGGAGTCTACCTTGGCCCTGAGGGTCCACCTCGG
114179 IS [GA] GGGGACCAGCCTGGTGGAGGATTCAGCAGAGGGCCCAGGTGGACCCTCAGGGCCAAGGT[GA]GACTCCCAGGCACCCATTCTCTCCCCTTCTCTCCTCCCCCATCTCACAGAGAGAATGATCG
114182 I S TGCGGGCAGGCCCTGGGCA
114182 P A S CGCGCCGAGGTTGGAGGCAGGGAAGY
114182 P G S ATGACGTGGCAGACCTGGAGGCAGGGAAGY
114182 T A S AGCCCTTCCCTCCCTCCAAGCCCAGGGCCTCCCCGCAGG
114182 T G S AGCCCTTCCCTCCCTCCAGGCCCAGGGCCTCCCCGCAGG
114182 IS [AG] CAGCCACGCACAGGTGGGCTCCATGACAGCCCGGGCGGGCAGAGCCCTTCCCTCCCTCCA[AG]GCCCAGGGCCTCCCCGCAGGCCCACAGGACTCCCACTCCTTCCCCACCTCGGCGCTGGGT
114184 I A CCCTGGTCTGAGGCTGTCCTGGGGT
114184 P G A ATGACGTGGCAGACGGCTGCCATGGTCCY
114184 P A A CGCGCCGAGGAGCTGCCATGGTCCY
114184 T G A CCCAGGACCATGGCAGCCCCCAGGACAGCCTCAGACCAGGGGA
114184 T A A CCCAGGACCATGGCAGCTCCCCAGGACAGCCTCAGACCAGGGGA
114184 IS [GA] CCATTCCCAGTGGGAGGGCGCACCTTGGTCTTCCTCCCCTGGTCTGAGGCTGTCCTGGGG[GA]GCTGCCATGGTCCTGGGTAGGAGGCTCTGCGCTTGCAGCAGCAGGCAGGCAGAAGGCTGTC
114186 I S GGGCAGCAGTGCCCACTCCCCT
114186 P C S ATGACGTGGCAGACGGCTGTACACAGAGGCY
114186 P T S CGCGCCGAGGAGCTGTACACAGAGGCY
114186 T C S CAGCGCCTCTGTGTACAGCCGGGGAGTGGGCACTGCTGCCCTA
114186 T T S CAGCGCCTCTGTGTACAGCTGGGGAGTGGGCACTGCTGCCCTA

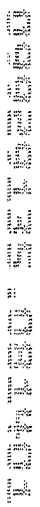
FIGURE 129G



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FIGURE 129G


114225 IS [TC] ATAAACAACAAACAGAATGTTAAAATAAAGTAACATTGGGGGTGGTTGGAGAACATAGGC[TC]CTAGTTAATGTCTTTGCCATTAACCACTGGTATGATTTGGGCATGTCTAATCTTCTTTGG
114226 I S ACTGGAATATATGGGGGCCTTTTTCTACCCCAAT
114226 P C S ATGACGTGGCAGACGTGATTGAGATCAATCTACCCY
114226 P G S CGCGCCGAGGCTGATTGACATCAATCTACCCY
114226 T C S AGGTGGGTAGATTGATCTCAATCACTTGGGGGTAGAAAAAGGCCCCCATATATTCCAGTTT
114226 T G S AGGTGGGTAGATTGATCTCAATCAGTTGGGGGTAGAAAAAGGCCCCCATATATTCCAGTTT
114226 IS [CG] AGCCAACACCTTCCTCAAAGTGTATCACAATATTCCAGGTGGGTAGATTGATCTCAATCA[CG]TTGGGGGTAGAAAAAGGCCCCATATATTCCAGTTTATGGGGCAGTTTTTCATATCCAGC
114228 I S GAAACAGCAACTTGATGAAAAGCTCAAAAAGTAAGTAAGAAAGAT
114228 P C S ATGACGTGGCAGACGTTGCTTATGGATTTGCTTCY
114228 P T S CGCGCCGAGGATTGCTTATGGATTTGCTTCY
114228 T C S GTTGGAAGCAAATCCATAAGCAACTCTTTCTTACTTACTTTTTGAGCTTTTCATCAAGTTGCTGTTTCTC
114228 T T S GTTGGAAGCAAATCCATAAGCAATTCTTTCTTACTTACTTTTTGAGCTTTTCATCAAGTTGCTGTTTCTC
114228 IS [CT] AAAGTAGCAAAGCACAACAATTTAGTCCGTATCTAATGTTGGAAGCAAATCCATAAGCAA[CT]TCTTTCTTACTTACTTTTTGAGCTTTTCATCAAGTTGCTGTTTCTCATTTTCAATGTCCA
114231 I S GTGGTGCTGTTGGACAGCTATGGAACCACTCT
114231 P C S ATGACGTGGCAGACGGTTTCAGTGGACTCATGY
114231 P T S CGCGCCGAGGAGTTTCAGTGGACTCATGY
114231 T C S GGACCATGAGTCCACTGAAACCGAGTGGTTCCATAGCTGTCCAACAGCACCACCA
114231 T T S GGACCATGAGTCCACTGAAACTGAGTGGTTCCATAGCTGTCCAACAGCACCACCA
114231 IS [CT] AGTGGCGCTCTGGTTGTCTGTAATCCCAAAGAACTTGACGGACCATGAGTCCACTGAAAC[CT]GAGTGGTTCCATAGCTGTCCAACAGCACCACCAGAATGGAATATCCTCTGTGTTTCAGAT
114233 I A AGGGCTGAAGGCCAGTCTCTATTCTGCCTT
114233 P G A ATGACGTGGCAGACGAAGGCAAACCTCAGY
114233 P C A CGCGCCGAGGCAACGGCAAACCTCAGY
114233 T G A TATGCTGAGGTTTGCCGTTCAGGCAGAATAGAGACTGGCCTTCAGCCCTGC
114233 T C A TATGCTGAGGTTTGCCGTTGAGGCAGAATAGAGACTGGCCTTCAGCCCTGC
114233 IS [GC] GGGACTGGCCCAAGGGAGCAGAGCTAAGGCAGGGCTGAAGGCCAGTCTCTATTCTGCCT[GC]AACGGCAAACCTCAGCATAGCTCTGGTGCCAGATGGGAATCTTTGTGGTAAACCACATTT
114236 I A TGGTATTGCTGGCAAAGAGGTTTTCTCAGAGGTGAGC
114236 P G A ATGACGTGGCAGACGCTGCAGAACTCAGAAGY
114236 P T A CGCGCCGAGGTCTGCAGAACTCAGAAGCY
114236 T G A TGAAGCTTCTGAGTTCTGCAGCCTCACCTCTGAGAAAACCTCTTTGCCACCAATACCATG
114236 T T A TGAAGCTTCTGAGTTCTGCAGACTCACCTCTGAGAAAACCTCTTTGCCACCAATACCATG
114236 IS [GT] ACAGCAGCAGTCACGCAGAAGCTTCATGGTATTGGTGGCAAAGAGGTTTTCTCAGAGGTGAG[GT]CTGCAGAACTCAGAAGCTTCAGAACCTAGCTGTGTCCTGTGCTGATACTGAGTTGGGAAT
114237 I A GCTGCCCCAGGCCAGAGGAAAGGT
114237 P A A CGCGCCGAGGAACAGGAAGAAGGAGGCY
114237 P G A ATGACGTGGCAGACGACAGGAAGAAGGAGGCY
114237 T A A TGCTGCCTCCTTCTTCCTGTTCCTTCCTCTGGCCTGGGGCAGCCC
114237 T G A TGCTGCCTCCTTCTTCCTGTCCTTTCCTCTGGCCTGGGGCAGCCC
114237 IS [AG] GGGCTGGAGTGAGGTGGGTGTTACAGAGTCAGGAAGGGCTGCCCCAGGCCAGAGGAAAGG[AG]ACAGGAAGAAGGAGGCAGCAGGAGACACTCTGAGGGCCCCCTTGCCTGGAGTCACTGAGAGA
114238 I S GAGGCCTGGGCACCAGATTTTAACCACTACTTT
114238 P C S ATGACGTGGCAGACGAACAGGATAAAAATGTGTGCY
114238 P G S CGCGCCGAGGCAACAGGATAAAAATGTGTGCY
114238 T C S GCGTGCACACATTTTTATCCTGTTCAAGTAGTGGTTAAAATCTGGTGCCCAGGCCTCCT
114238 T G S GCGTGCACACATTTTTATCCTGTTGAAGTAGTGGTTAAAATCTGGTGCCCAGGCCTCCT
114238 IS [CG] TGTACCTGCTTGAATACCCCTATCACTATCACATGTGCGTGCACACATTTTTATCCTGTT[CG]AAGTAGTGGTTAAAATCTGGTGCCCAGGCCTCCTTTTTAGCCATGAGCCATTGACTGTTT
114239 I S GGAGGCTCCCGGGGGCCGT
114239 P C S ATGACGTGGCAGACGGTGGGGCAGTGTY
114239 P T S CGCGCCGAGGAGTGGGGCAGTGTTY
114239 T C S CCCCAACACTGCCCCACCCGCCCCCGGGAGCCTCCCG
114239 T T S CCCCAACACTGCCCCACTCGGCCCCCGGGAGCCTCCCG
114239 IS [CT] CAACACCGCCCCACCCAGCTCCCCAACGCTGTCCAGCCCGGGCCCCCAACACTGCCCCAC[CT]CGGCCCCCGGGAGCCTCCCGGCTGCCCTCACCCTCCAGCACCCAGTGATCTCCACAGCTG
114241 I A GGACCACCTTCAGCAAAGGGCAGCTT
114241 P A A CGCGCCGAGGACTGGAGCTGGAGAGY
114241 P G A ATGACGTGGCAGACGCTGGAGCTGGAGAGY
114241 T A A CGCCCTCTCCAGCTCCAGTAGCTGCCCTTTGCTGAAGGTGGTCCGC
114241 T G A CGCCCTCTCCAGCTCCAGCAGCTGCCCTTTGCTGAAGGTGGTCCGC
114241 IS [AG] CGGTGGCAGCGGGTTGGGTTCCCACCGGAGAAAGCGGACCACCTTCAGCAAAGGGCAGCT[AG]CTGGAGCTGGAGAGGGCGTTTGCAGCATGGCCCTACCCCAACATCAGCACCCATGAGCAC
114242 I S GGAAACAACCTGAAGGCAGGCTACCCAGCT
114242 P C S ATGACGTGGCAGACGAAGGGGCTGTGGGY
114242 P G S CGCGCCGAGGCAAGGGGCTGTGGGY
114242 T C S TTGGCCCACAGCCCCTTCGCTGGGTAGCCTGCCTTCAGGTTGTTTCCCC
114242 T G S TTGGCCCACAGCCCCTTGGCTGGGTAGCCTGCCTTCAGGTTGTTTCCCC
114242 IS [CG] ACAGGTGAGCTGTGACCCCTTCTCACACAGCCAACATCTAGGCTTGGCCCACAGCCCCTT[CG]GCTGGGTAGCCTGCCTTCAGGTTGTTTCCCCTGTCCCTGGGTGGAGGGGATGCTGGGGCC
114246 I A GCAGCAGGAGCCTTCCATTTGTCCTGCTTTTA
114246 P C A ATGACGTGGCAGACCTGTTCCAGATGAGACAAAAT
114246 P T A CGCGCCGAGGTTGTTCCAGATGAGACAAAAT
114246 T C A GTCCTTTTGTCTCATCTGGAACAGAAAAAGCAGGACAAATGGAAGGCTCCTGCTGCTG
114246 T T A GTCCTTTTGTCTCATCTGGAACAAAAAAGCAGGACAAATGGAAGGCTCCTGCTGCTG
114246 IS [CT] CAGGACTGAGAAGGCAGGAGTTCCATCAGCAGCAGGAGCCTTCCATTTGTCCTGCTTTTT[CT]TGTTCCAGATGAGACAAAAGGACCCAGTGAAAGGAATGACAGCAGATGACTAAAGCCGCC
114248 I S GCAATCCCAACAGTGACCTGGCTGCTAGCT
114248 P T S CGCGCCGAGGATGGTGGATCTGGTCACY
114248 P G S ATGACGTGGCAGACCTGGTGGATCTGGTCAY
114248 T T S CAGGGTGACCAGATCCACCATGCTAGCAGCCAGGTCACTGTTGGGATTGCAC
114248 T G S CAGGGTGACCAGATCCACCAGCTAGCAGCCAGGTCACTGTTGGGATTGCAC
114248 IS [TG] CAGGCTGTCCGCCCGGTGGTCTGGCCCTTGGGGAATGCGTCAGGGTGACCAGATCCACCA[TG]GCTAGCAGCCAGGTCACTGTTGGGATTGCACGGTCGTCACGAGCTGCCTTCCTATCCAC
114249 I A CCTTGGGAAAGCACCCCTCCTCCACTCA
114249 P C A ATGACGTGGCAGACCGGTGCCCCACTCY
114249 P T A CGCGCCGAGGTGGTGCCCCACTCY
114249 T C A CTTGGAGTGGGGCACCGGAGTGGAGGAGGGGTGCTTTCCCAAGGAT
114249 T T A CTTGGAGTGGGGCACCAGAGTGGAGGAGGGGTGCTTTCCCAAGGAT
114249 IS [CT] GACTGCAGCCCCGGCCTCTGCGGTGAGCACCATCCTTGGGAAAGCACCCCTCCTCCACTC[CT]GGTGCCCCACTCCAAGGAGCAGAGGGAAATGGGAATTGAGGTGTCCCGGTTTGTACAGTT
114254 I A GCATGGCTGGAGGAGGGGCAGCT
114254 P A A CGCGCCGAGGAGCTAAGTGGTTTCTGAAAAY
114254 P G A ATGACGTGGCAGACGGCTAAGTGGTTTCTGAAAAY
114254 T A A CCCTTTTTCAGAAACCACTTAGCTGCTGCCCCTCCTCCAGCCATGCCA
114254 T G A CCCTTTTTCAGAAACCACTTAGCCGCTGCCCCTCCTCCAGCCATGCCA



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114254 IS    [AG]        CAGCTCTGGCTGGCTCTGGTAAGTGCTCTGCAGCCCTGGCATGGCTGGAGGAGGGGCAGC[AG]GCTAAGTGGTTTCTGAAAAAGGGCAAAAATGATGGGAAAAGCTTTGGGATCCTCTGGGAA
114255 I         S  CCAGATTGCTTGATTCTTGGAAAATAGGCTGGGGGT
114255 P    C    S  ATGACGTGGCAGACGTAAACCAGCCCCTTCY
114255 P    G    S  CGGCCCGAGGCTAAACCAGCCCCTTCY
114255 T    C    S  CTGGGAAGGGGCTGGTTTACCCCCCAGCCTATTTTCCAAGAATCAAGCAATCTGGCC
114255 T    G    S  CTGGGAAGGGGCTGGTTTAGCCCCCAGCCTATTTTCCAAGAATCAAGCAATCTGGCC

114255 IS    [CG]        TGAGATGGGGCCAAGAACTCCGCCCATCCTCTCTGTCGTGGCTGGGAAGGGGCTGGTTTA[CG]CCCCCAGCCTATTTTCCAAGAATCAAGCAATCTGGCCCTGACCCAGGTATGTGTAGGGGG
114257 I         S  GCGGACTTACCTGGCACCCGGTGGT
114257 P    C    S  ATGACGTGGCAGACGGCCGTCTCCTGGY
114257 P    T    S  CGCGCCGAGGAAGCCGTCTCCTGGY
114257 T    C    S  GAGGCCAGGAGACGGCCCCACCGGTGCCAGGTAAGTCCGCGT
114257 T    T    S  GAGGCCAGGAGACGGCTCCACCGGTGCCAGGTAAGTCCGCGT

114257 IS    [CT]        GACTCCTGCCCCACCATCACAGTCAGCCCTGTTATCACCATCCAGAGGCCAGGAGACGGC[CT]CCACCCGGTGCCAGGTAAGTCCGCGTCTGGAGCCCCCCTCCCTGCTGGGAGCCCAGCTGGC
114258 I         A  GGTGGGGACAGAATGGGGACACATGCA
114258 P    C    A  ATGACGTGGCAGACCCTCCACTGTCCCTGY
114258 P    T    A  CGCGCCGAGGTCTCCACTGTCCCTGTY
114258 T    C    A  TGTAACAGGGACAGTGGAGGGCATGTGTCCCCATTCTGTCCCCACCCT
114258 T    T    A  TGTAACAGGGACAGTGGAGAGCATGTGTCCCCATTCTGTCCCCACCCT

114258 IS    [CT]        GGAGGGTGACTTTCTAGATGGCGTCTATAGACAGGGTGGGGACAGAATGGGGACACATGC[CT]CTCCACTGTCCCTGTTACATTGCTTTTCTGGACAGTCACCTAGACTGAGGGGCAGCTTTT
114259 I         S  CAGGGGGATGGTGGTGTTCTGTCCGTCT
114259 P    C    S  ATGACGTGGCAGACGTGCAGGTTGAGCATGY
114259 P    T    S  CGCGCCGAGGATGCAGGTTGAGCATGY
114259 T    C    S  AAGCCATGCTCAACCTGCACGACGGACAGAACACCACCATCCCCCTGCT
114259 T    T    S  AAGCCATGCTCAACCTGCATGACGGACAGAACACCACCATCCCCCTGCT

114259 IS    [CT]        ATGTCTTTCAGACCCTGAGACAGGGAAGACCTGTCTGCTGAAAGCCATGCTCAACCTGCA[CT]GACGGACAGAACACCACCATCCCCCTGCTCCTGGAGATCGCGCGGCAAACGGACAGCCTG
114266 I         S  GGGGAAGAGTAAGAGAGAGGTAGGGGAGGGGT
114266 P    T    S  CGCGCCGAGGATGACATGAGCCCCAY
114266 P    C    S  ATGACGTGGCAGACGTGACATGAGCCCCAY
114266 T    T    S  CCCCTGGGGCTCATGTCATCCCCTCCCCTACCTCTCTCTCTTACTCTTCCCCTG
114266 T    C    S  CCCCTGGGGCTCATGTCACCCCCTCCCCTACCTCTCTCTTACTCTTCCCCTG

114266 IS    [TC]        TCATTCCCCTGTGCCCTCTTCTTCCCCATCTGTGCCGCATGGCCCCCTGGGGCTCATGTCA[TC]CCCCTCCCCTACCTCTCTCTTACTCTTCCCCTGCACCCCCTCATTCTCCTGCGGATCCCT
114267 I         S  GCCTGCAACTACTCTGATCCCTCCAGCCA
114267 P    G    S  ATGACGTGGCAGACCGCATAGGTCAGTAACAGY
114267 P    A    S  CGCGCCGAAGTGCATAGGTCAGTAACAGY
114267 T    G    S  AGAGCTGTTACTGACCTATGCGGGCTGGAGGGATCAGAGTAGTTGCAGGCAT
114267 T    A    S  AGAGCTGTTACTGACCTATGCAGCCTGGAGGGATCAGAGTAGTTGCAGGCAT

114267 IS    [GA]        ACAGTACCCCAGAACTGCCACCGCCCTCCTGTGGTCTCTCGAGAGCTGTTACTGACCTATGC[GA]GGCTGGAGGGATCAGAGTAGTTGCAGGCATGAGATCTCCTGGAGGAAAACAGAGATGAAG
114268 I         A  ACCAAGACGACATTCTCTACCACGTAAACCCT
114268 P    A    A  CGCGCCGAGGACGTGTATCTATTTCACCAGY
114268 P    G    A  ATGACGTGGCAGACGCGTGTATCTATTTCACCAY
114268 T    A    A  AGTACTGGTGAAATAGATACACGTGGGTTTACGTGGTAGAGAATGTCGTCTTGGTGA
114268 T    G    A  AGTACTGGTGAAATAGATACACGCGGGTTTACGTGGTAGAGAATGTCGTCTTGGTGA

114268 IS    [AG]        AACCATGTCCTAGGGAATACTATGATTTCACCAACACGACATTCTCTACCACGTAAACCC[AG]CGTGTATCTATTTCACCAGTACTCTCTCCACCGGTGGGACGGAGATTAGCCTAAGGGCAT
114270 I         A  GGGCTCAGCCCTCCCCACCTCT
114270 P    G    A  ATGACGTGGCAGACGGCTCACCCCACAY
114270 P    A    A  CGCGCCGAGGAGCTCACCCCACACY
114270 T    G    A  CAGAGTGTGGGGTGAGCTGAGGTGGGGAGGGCTGAGCCCCT
114270 T    A    A  CAGAGTGTGGGGTGAGCTGAGGTGGGGAGGGCTGAGCCCCT

114270 IS    [GA]        GCCCGGGACCATCTGGCTTCTCCCCTGCCCCCTTCTTAGGGGCTCAGCCCTCCCCACCTC[GA]GCTCACCCCACACTCTGCCCTTCCTACCTCAGCCCTCCCCACACTCTGCCCTTCCCACCT
114271 I         S  CGGAAAGCCAGGCCTCCCAGCTTCT
114271 P    C    S  ATGACGTGGCAGACGGAGGTTCAGGGCCY
114271 P    T    S  CGCGCCGAGGAGAGGTTCAGGGCCY
114271 T    C    S  AAAGGGCCCTGAACCTCCGAAGCTGGGAAGGCCTGGCTTTCCGGC
114271 T    T    S  AAAGGGCCCTGAACCTCTGAAGCTGGGAAGGCCTGGCTTTCCGGC

114271 IS    [CT]        GAGCCCTCCAGCTCGATCTCAAACTCCTGGGGAAAGATGGGACAAAGGCCCTGAACCTC[CT]GAAGCTGGGAGGCCTGGCTTTCCGGCAGGTGCGTGCCTCAGCTTTGCAAGGAGAGAGGGAG
114272 I         S  GGGCTGCTGGTGGGCGCCT
114272 P    C    S  ATGACGTGGCAGACGGGGAGCCTGGAGY
114272 P    T    S  CGCGCCGAGGAGGAGCCTGGAGCY
114272 T    C    S  CATGGCTCCAGGCTCCCTGGGCCCACCAGCAGCCCGG
114272 T    T    S  CATGGCTCCAGGCTCCCTGGGCCCACCAGCAGCCCGG

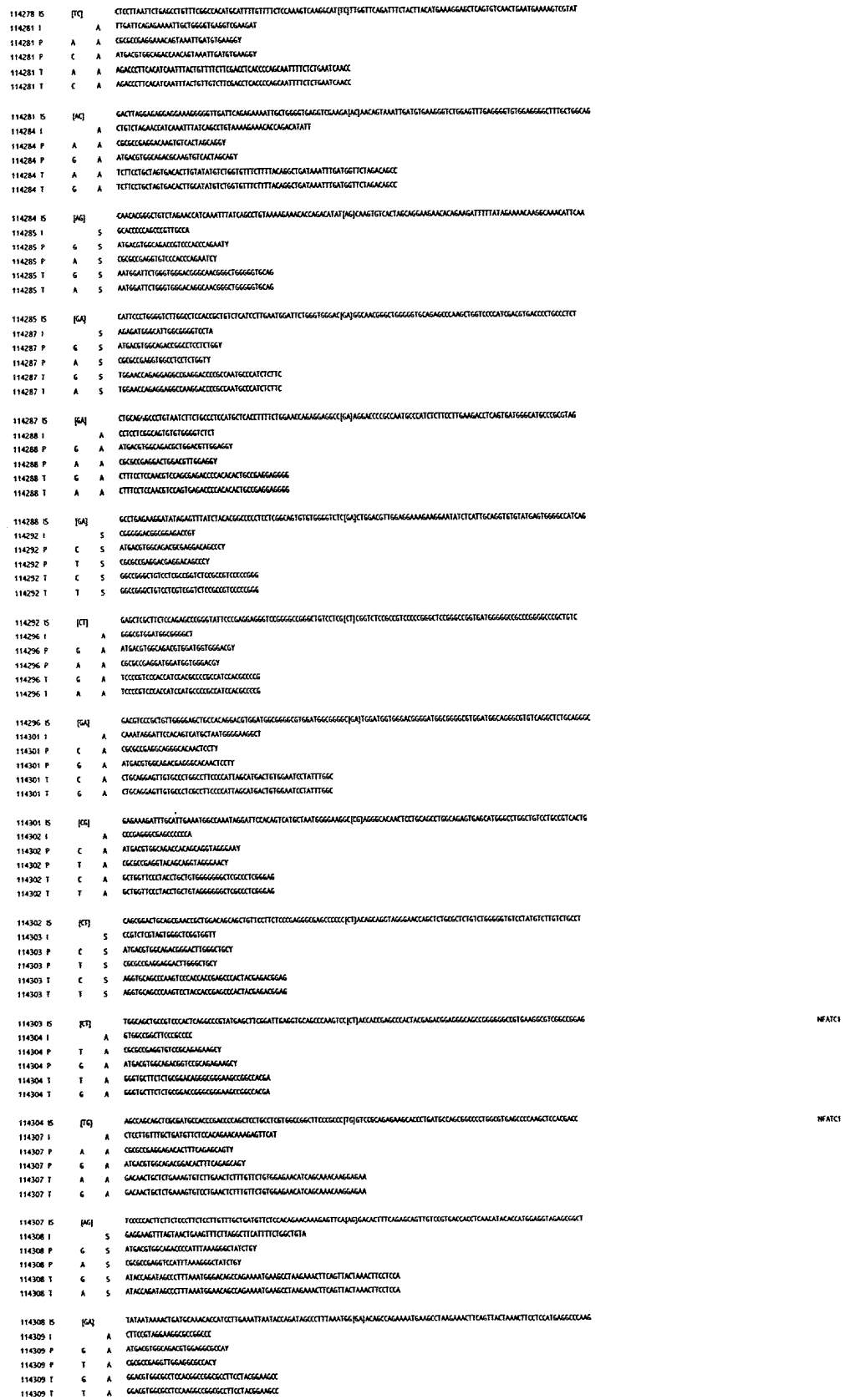
114272 IS    [CT]        AATCTCCATGGCAGCCTCTGTCCCCGCGCGCGGGAGCGTGCAGCCATCGCTCCAGGCTCCC[CT]GGCGCCCACCAGCAGCCCGCCACTCAGCCACCTTGCTGATGCTGCCGCACGGACTCCAG
114274 I         S  GCTTAGAGATGGCAAACACACCTGTCACCCACT
114274 P    C    S  ATGACGTGGCAGACGACCCTGGCATAGGGY
114274 P    T    S  CGCGCCGAGGAACCCTGGCATAGGGY
114274 T    C    S  GATGCCCTATGCCAGGGTCGTGGGTGACAGGTGTGTTTGCCATCTCTAAGCCG
114274 T    T    S  GATGCCCTATGCCAGGGTTGTGGGTGACAGGTGTGTTTGCCATCTCTAAGCCG

114274 IS    [CT]        TCGGCCCCCGCCCAGGCAGGCAGGAGCACCGTGATGGGTTCACGATGCCCTATGCCAGGGT[CT]GTGGGTGACAGGTGTGTTTGCCATCTCTAAGCCGGGTGTGCTTCTCCTGCCTTTTGAGAG
114275 I         S  TGGCTGGGCATCGGGCAGCCA
114275 P    G    S  ATGACGTGGCAGACCGGGTCATTGCCAGAY
114275 P    A    S  CGCGCCGAGGTGGGTCATTGCCAGAY
114275 T    G    S  CCTTTCTGGCAATGACCCGGGCTGCCCGATGCCCAGCCAGA
114275 T    A    S  CCTTTCTGGCAATGACCCAGGCTGCCCGATGCCCAGCCAGA

114275 IS    [GA]        GCTTCTCCTGCCTTTTGACAGCTGGAGCTGAGAGGCACAGGCCCTTTCTGGCAATGACCC[GA]GGCTGCCCGATGCCCAGCCAGAAGCAGACAGCTGGAGACTCTGTCCACAGGGAGGGACG
114276 I         A  CGGTGATTCCCAGGTAAGGGGTCTGTTT
114276 P    G    A  ATGACGTGGCAGACGAGGGAGGTATAGCGGY
114276 P    A    A  CGCGCCGAGGAAGGGAGGTATAGCGGY
114276 T    G    A  GTGACCCCTATACCTCCCTCAACAGGACCCCTTACCTGGGAATCACCGGT
114276 T    A    A  GTGACCGCTATACCTCCCTTAACAGGACCCCTTACCTGGGAATCACCGGT

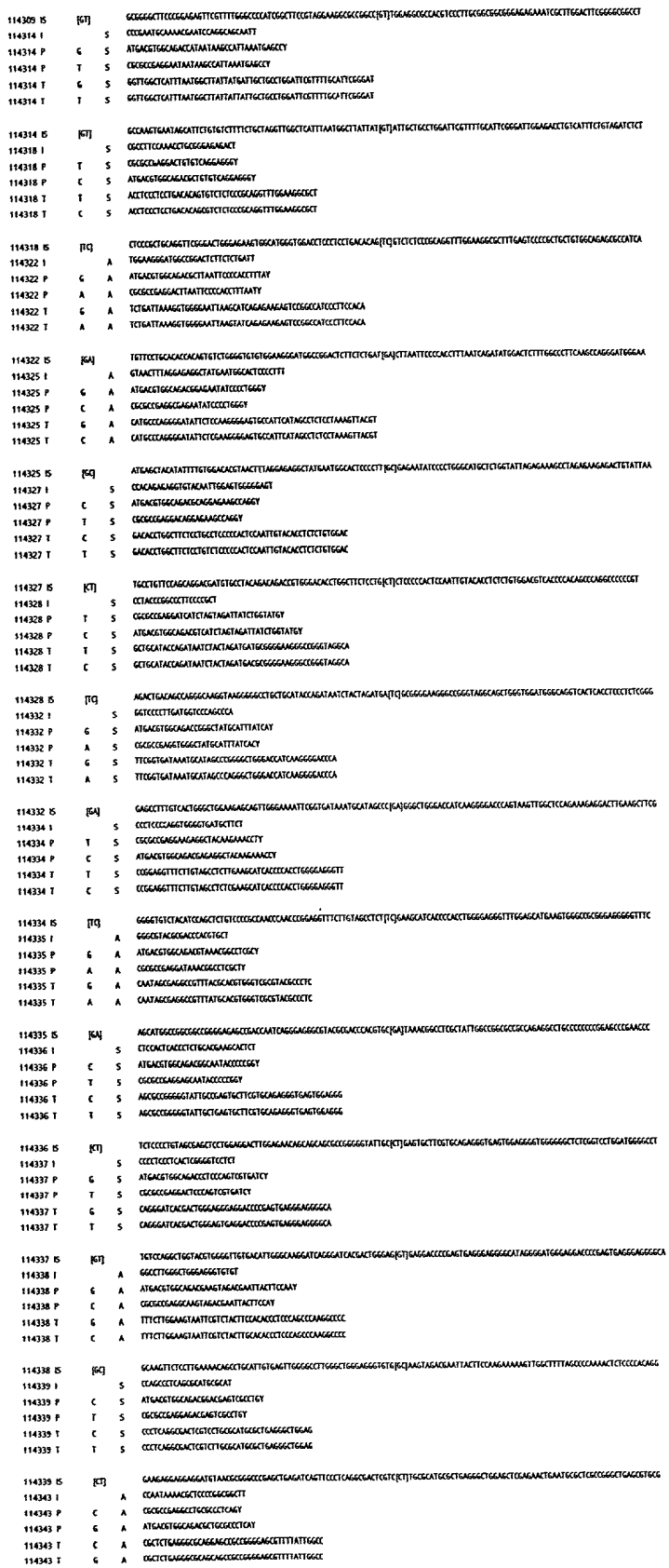
114276 IS    [GA]        GACACTGCCCACATGAGTGTCCGAAAATCCACCGGTGATTCCCAGGTAAGGGGTCCTGTT[GA]AGGGAGGTATAGCGGTCACTGCTTCTGCAGGCCTAGGAAACTGGATTACAAAGTCCATCA
114278 I         S  CAGTTGACACTGAGCTCCTTTCATGTAAGTAGAAATCTGAACCAAT
114278 P    T    S  CGCGCCGAGGAATGCCTTGACTTTGGAGY
114278 P    C    S  ATGACGTGGCAGACGATGCCTTGACTTTGGAGY
114278 T    T    S  TTTTCTCCAAAGTCAAGGCATTTTGGTTCAGATTTCTACTTACATGAAAGGAGCTCAGTGTCAACTGAA
114278 T    C    S  TTTTCTCCAAAGTCAAGGCATCTTGGTTCAGATTTCTACTTACATGAAAGGAGCTCAGTGTCAACTGAA
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FIGURE 129G



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FIGURE 129G



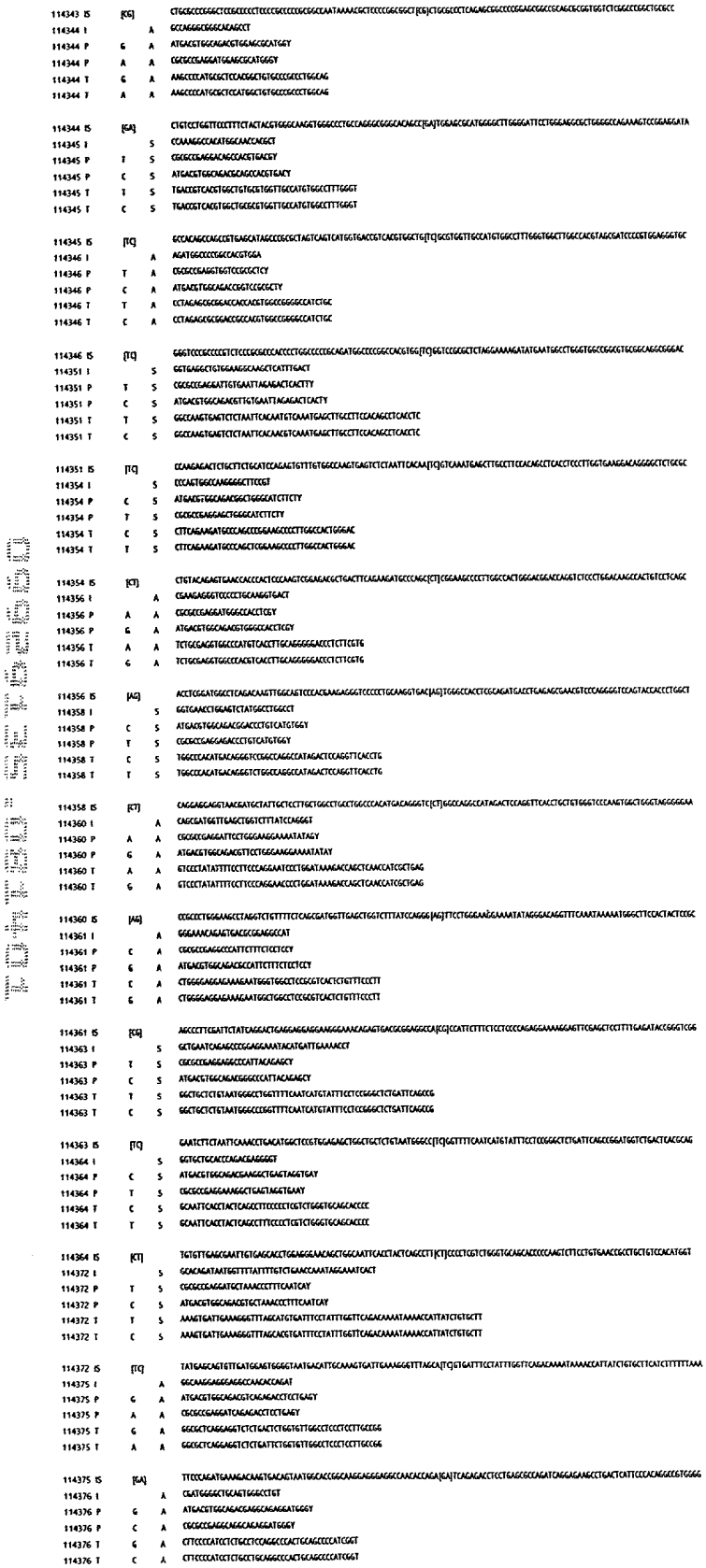


FIGURE 129G

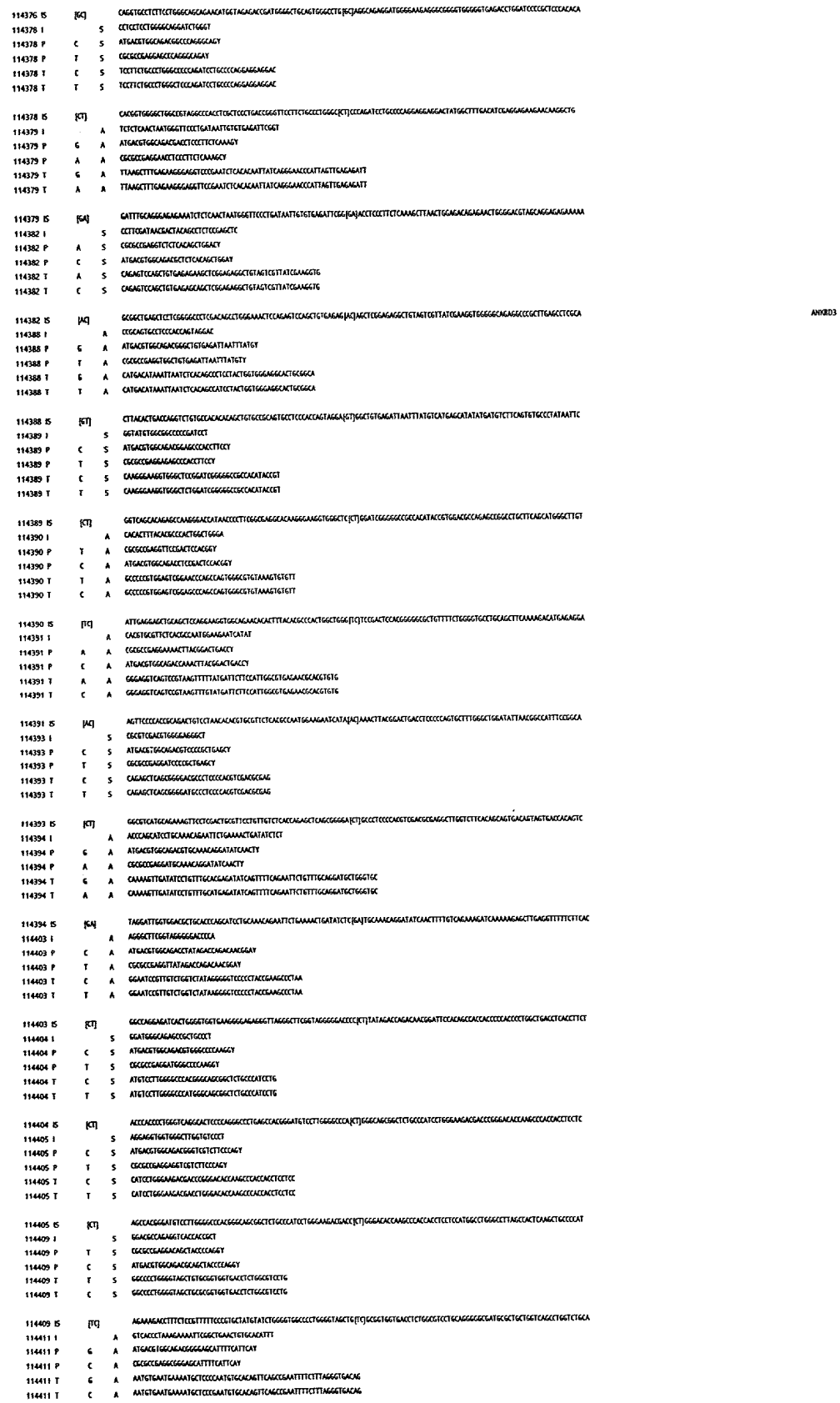
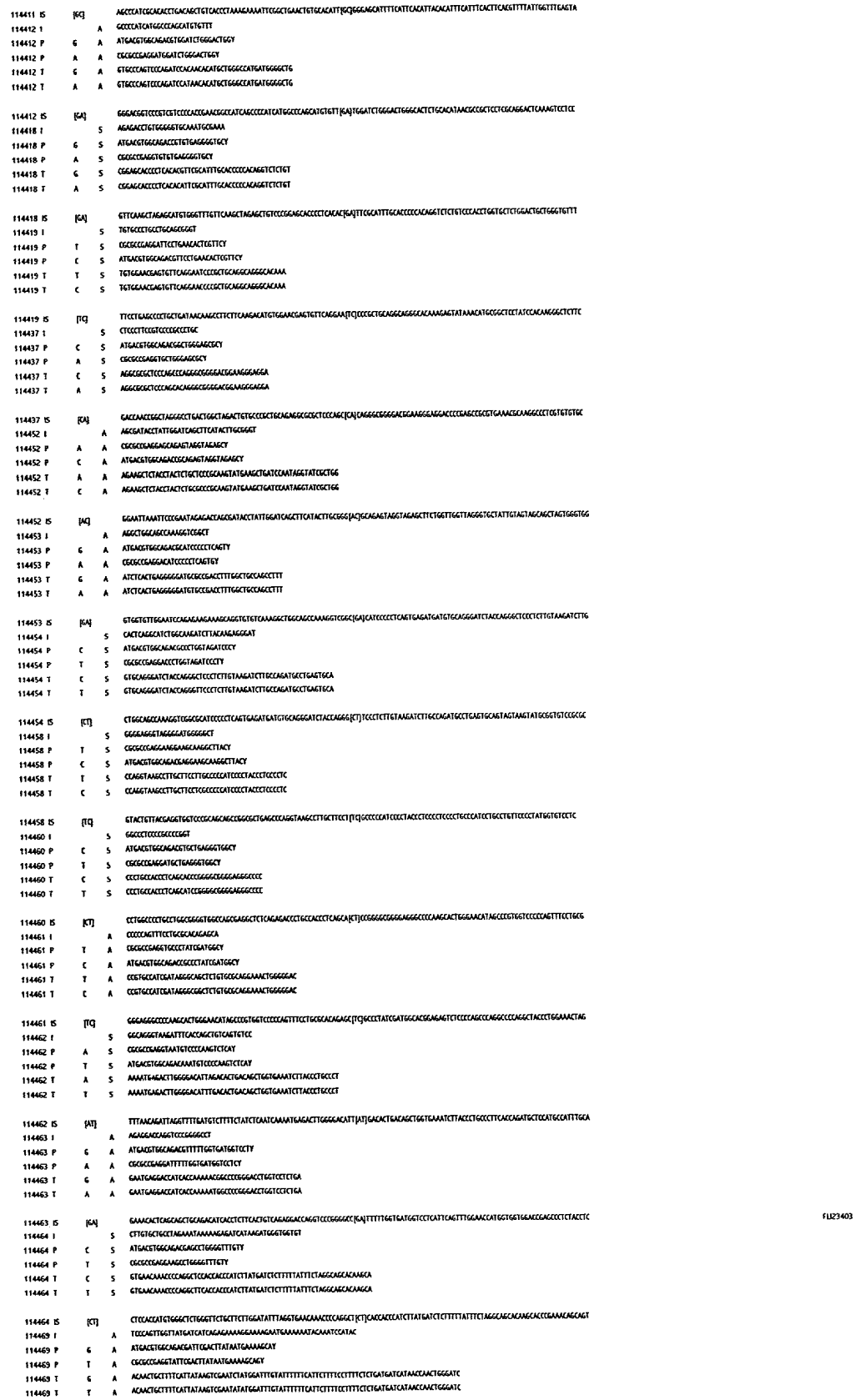


FIGURE 129G



FLI23403

FIGURE 129G

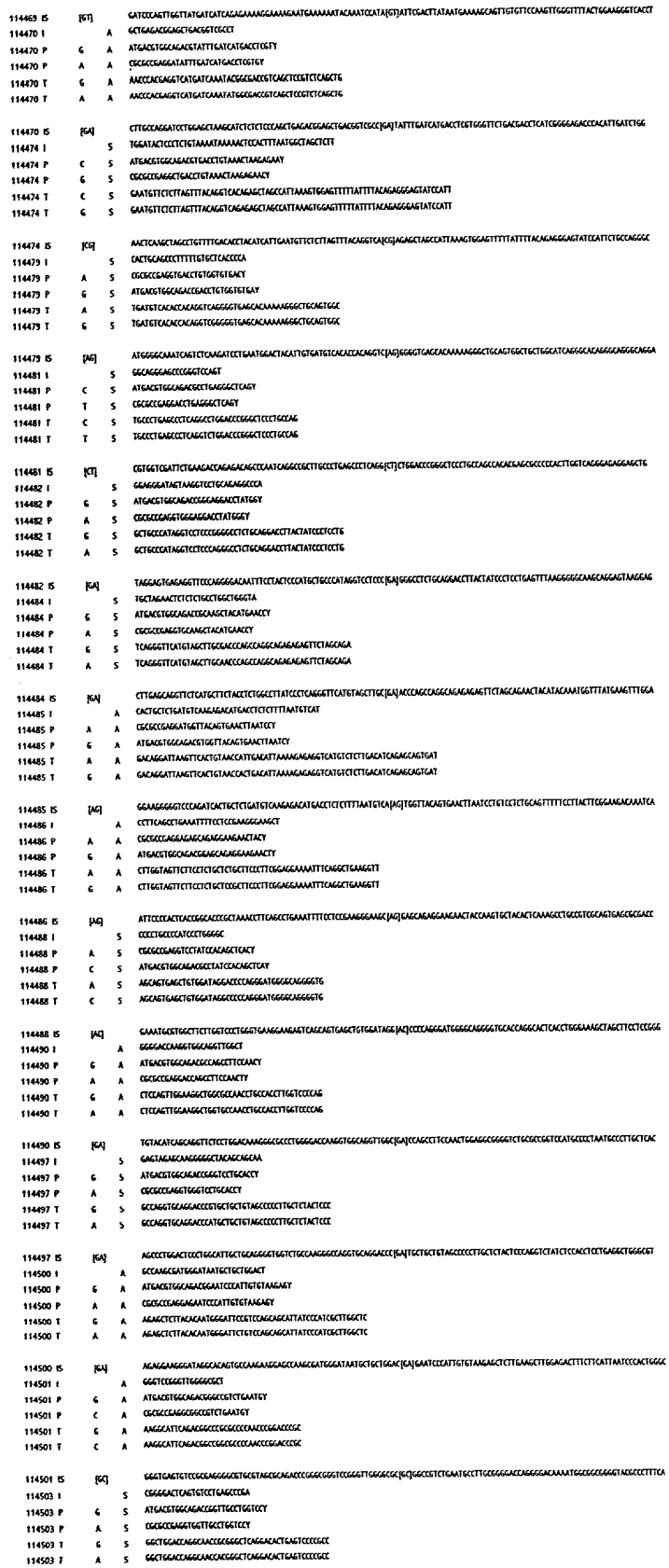

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114470 I A GCTGAGACGCAGCTGACGGTCGCCT
114470 P G A ATGACGTGGCACACGTATTTGATCATGACCTCGTT
114470 P A A CGCGCCGAGGATATTTGATCATGACCTCGTGT
114470 T G A AACCCACGAGGTCATGATCAAATACGGGCAACGTCAGCTCCGTCTCAGCTG
114470 T A A AACCCACAGGTCATGATCAAATATGGGCAACGTCAGCTCCGTCTCAGCTG
114470 IS [GA] CTTGCCAGGATCCTGGAGCTAAGCATCTCTCTCCCAGCTGAGACGGAGCTGACGGTCGCC[GA]TATTTGATCATGACCTCGTGGGTTCTGACGACCTCATCGGGGAGACCCACATTGATCTGG
114474 I S TGGATACTCCCTCTGTAAAATAAAAACTCCACTTTAATGGCTAGCTCTT
114474 P C S ATGACGTGGCAGACGTGACCTGTAAACTAAGAGAAY
114474 P G S CGCGCCGAGGCTGACCTGTAAACTAAGAGAACY
114474 T C S GAATGTTCTCTTAGTTTACAGGTCACAGAGCTAGCCATTAAAGTGGAGTTTTTATTTTACAGAGGGAGTATCCATT
114474 T G S GAATGTTCTCTTAGTTTACAGGTCAGAGAGCTAGCCATTAAAGTGGAGTTTTTATTTTACAGAGGGAGTATCCATT
114474 IS [CG] AACTCAAGCTAGCCTGTTTTGACACCTACATCATTGAATGTTCTCTTAGTTTACAGGTCA[CG]AGAGCTAGCCATTAAAGTGGAGTTTTTATTTTACAGAGGGAGTATCCATTCTGCCAGGGC
114479 I S CACTGCAGCCCTTTTTGTGCTCACCCCA
114479 P A S CGCGCCCGAGGTGACCTGTGGTGTGACY
114479 P G S ATGACGTGGCAGACCCGACCTGTGGTGTGAY
114479 T A S TGATGTCACACCACAGGTCAGGGGTGAGCACAAAAAGGGCTGCAGTGGC
114479 T G S TGATGTCACACCACAGGTCGGGGGTGAGCACAAAAAGGGCTGCAGTGGC
114479 IS [AG] ATGGGGCAAATCAGTCTCAAGATCCTGAATGGACTACATTGTGATGTCACACCACACAGGTC[AG]GGGGTGAGCACAAAAAGGGCTGCAGTGGCTGCTGGCATCAGGGCACAGGGCAGGGCAGGA
114481 I S GGCAGGGAGCCCGGGTCCAGT
114481 P C S ATGACGTGGCAGACGCCTGAGGGCTCAGY
114481 P T S CGCGCCGAGAACCTGAGGGCTCAGY
114481 T C S TGCCCTGAGCCCTCAGGCCTGGACCCGGGCTCCCTGCCAG
114481 T T S TGCCCTGAGCCCTCAGGTCTGGACCCGGGCTCCCTGCCAG
114481 IS [CT] CGTGGTCGATTCTGAAGACCAGAGACAGCCCAATCAGGCCGCTTGCCCTGAGCCCTCAGG[CT]CTGGAACCCGGGCTCCCTGCCAGCCACACCAGCCGCCCCACTTGGTCAGGGACAGGGAGCTG
114482 I S GGAGGCATAGTAAGGTCCTGCACAGGCCCA
114482 P G S ATGACGTGGCAGACCGGCAGGACCTATGGY
114482 P A S CGCGCCGAGGTGGGAAGGACCTATGGGY
114482 T G S GCTGCCCATAGGTCCTCCCGGGGGCTCTGCAGGACCTTACTATCCCTCCTG
114482 T A S GCTGCCCATAGGTCCTCCCAGGGCCTCTGCAGGACCTTACTATCCCTCCTG
114482 IS [GA] TAGGAGTGAGAGGTTCCCAGGGGACAATTTCCTACTCCCATGCTGCCCATAGGTCCTCCC[GA]GGGCCTCTGCAGGACCTTACTATCCCTCCTGAGTTTAAGGGGCAAGCAGGAGTAAGAG
114484 I S TGCTAGAACTCTCTCTGCCTGGCTGGGTA
114484 P G S ATGACGTGGCAGACGCAAGCTACATGAACCY
114484 P A S CGCGCCGAGGTGCAAGCTACATGAACCY
114484 T G S TCAGGGTTCATGTAGCTTGCGAACCCAGCCAGGCAGAGAGAGTTCTAGCAGA
114484 T A S TCAGGGTTCATGTAGCTTGCGAACCCAGCCAGGCAGAGAGAGTTCTAGCAGA
114484 IS [GA] CTTGAGCAGGTTCTCATGCTTCTACCTCTGGCCTTATCCCTCAGGGTTCATGTAGCTTGC[GA]ACCCAGCCAGGCAGAGAGAGTTCTAGCAGAACTACATACAAATGGTTTATGAAGTTTGGA
114485 I A CACTGCTCTGATGTCAAGAGACATGACCTCTCTTTAATGTCAT
114485 P A A CGCGCCGAGGATGGTTACAGTGAACTTAATCCY
114485 P G A ATGACGTGGCAGACGTGGTTACAGTGAACTTAATCY
114485 T A A GACAGGATTAAGTTCACTGTAACCATTGACATTAAAAGAGAGGTCATGTCTCTTGACATCAGAGCAGTGAT
114485 T G A GACAGGATTAAGTTCACTGTAACCACTGACATTAAAAGAGAGGTCATGTCTCTTGACATCAGAGCAGTGAT
114485 IS [AG] GGAAGGGGGTCCCAGATCACTGCTCTGATGTCAAGAGACATGACCTCTCTTTAATGTCA[AG]TGGTTACAGTGAACTTAATCCTGTCCTCTGCAGTTTTTCCTTACTTGGGAAGACAAATCA
114486 I A CCTTCAGCCTGAAATTTTCCTCCGAAGGGAAGCT
114486 P A A CGCGCCGAGAAGAGCAGAGGAAGAACTACY
114486 P G A ATGACGTGGCAGACGGAGCAGAGGAAGAACTY
114486 T A A CTTGGTAGTTCTTCCTCTGCTCCGCTTCCCTTCGGAGGAAAATTTCAGGCTGAAGGTT
114486 T G A CTTGGTAGTTCTTCCTCTGCTCCGCTTCCCTTCGGAGGAAAATTTCAGGCTGAAGGTT
114486 IS [AG] ATTCCCCACTCACCGGCACCCGCTAAACCTTCAGCCTGAAATTTTCCTCCGAAGGGAAGC[AG]GAGCAGAGGAAGAACTACCAAGTGCTACACTCAAAGCCTGCCGTCGCAGTGAGCGCGAACC
114488 I S CCCCTGCCCCATCCCTGGGGC
114488 P A S CGCGCCGAGGTCCTATCCACAGCTCACY
114488 P C S ATGACGTGGCAGACGCCTATCCACAGCTCAY
114488 T A S AGCAGTGAGCTGTGGATAGGACCCCAGGGATGGGGCAGGGGTG
114488 T C S AGCAGTGAGCTGTGGATAGGCCCCCAGGGATGGGGCAGGGGTG
114488 IS [AC] GAAATGCGTGGCTTCTTGGTCCCTGGGTGAAGGAAGAGTCAGCAGTGAGCTGTGGATAGG[AC]CCCCAGGGATGGGGCAGGGGTGCACCAGGCACTCACCTGGGAAAGCTAGCTTCCTCCGGG
114490 I A GGGGACCCAAGGTGGCAAGGTTGGCT
114490 P G A ATGACGTGGCAGACGCCAGCCTTCCAACY
114490 P A A CGCGCCGAGGACCAGCCTTCCAACTY
114490 T G A CTCCAGTTGGAAGGCTGGCGCCAACCTGCCACCTTGGTCCCCAG
114490 T A A CTCCAGTTGGAAGGCTGGTGCCAACCTGCCACCTTGGTCCCCAG
114490 IS [GA] TGTACATCAGCAGGTTCTCCTGGACAAAGGGCGCCCTGGGGACCAAGGTGGCAGGTTGGC[GA]CCAGCCTTCCAACTGGAGCCGGGGTCTGCGCCGGTCCATGCCCCTAATGCCCTTGCTCAC
114497 I S GAGTAGAGCAAGGGGGCTACAGCAGCAA
114497 P G S ATGACGTGGCAGACCGGGTCCTGCACCY
114497 P A S CGCGCCCAGGTGGGTCCTGCACCY
114497 T G S GCCAGGTGCAGGACCCCTGCTGCTGTAGCCCCCTTGCTCTACTCCC
114497 T A S GCCAGGTGCAGGACCCATGCTGCTGTAGCCCCCTTGCTCTACTCCC
114497 IS [GA] AGCCCTGGACTCCCTGGCATTGCTGCAGGGGTGGTCTGCCAAGGGCCAGGTGCAGGACCC[GA]TGCTGCTGTAGCCCCCTTGCTCTACTCCCAGGTCTATCTCCACCTCCTGAGGCTGGGCGT
114500 I A GCCAAGCGATGGGATAATGCTGCTGGACT
114500 P G A ATGACGTGGCAGACGGAATCCCATTGTGTAAGAGY
114500 P A A CGCGCCCAGGAGAATCCCATTGTGTAAGAGY
114500 T G A AGAGCTCTTACACAATGGGATTCCGTCCAGCAGCATTATCCCATCGCTTGGCTC
114500 T A A AGAGCTCTTACACAATGGGATTCTGTCCAGCAGCATTATCCCATCGCTTGGCTC
114500 IS [GA] AGAGGAAGGGATAGGCACAGTGCCAAGAAGCAGCCAAGCGATGGGATAATGCTGCTGGAC[GA]GAATCCCATTGTGTAAGAGCTCTTGAAGCTTGGAGACTTTCTTCATTAATCCCACTGGGC
114501 I A GGCTCCGGGTTGGGGCGCT
114501 P G A ATGACGTGGCAGACGGGCGTCTCGAATGY
114501 P C A CGCGCCCAGGCGGCGTCTCGAATGY
114501 T G A AAGCATTCAGACGGCCCGCGCCCCAACCCGGACCCGC
114501 T C A AAGCATTCAGACGGCCGGCGCCCCAACCCGGACCCGC
114501 IS [GC] GGGTCAGTGTCCCGCGAGGGGCGTGCGTAGCGCAGACCCGGGCGGGTCCGGGTTGGGCGC[GC]GGCCGTCTGAATGCCTTGCGGGGGACCAGGGGACAAAATGGCGGCGGGGTACGCCCTTTCA
114503 I S CGGGGACTCAGTGTCCTGAGCCCGA
114503 P G S ATGACGTGGCAGACCGGTTGCCTGGTCCY
114503 P A S CGCGCCGAGGTGGTTGCCTGGTCCY
114503 T G S GGCTGGACCAGGCAACCCGGGGCTCAGGACACTGAGTCCCCGCC
114503 T A S GGCTGGACCAGGCAACCACGGGCTCAGGACACTGAGTCCCCGCC

FIGURE 129G

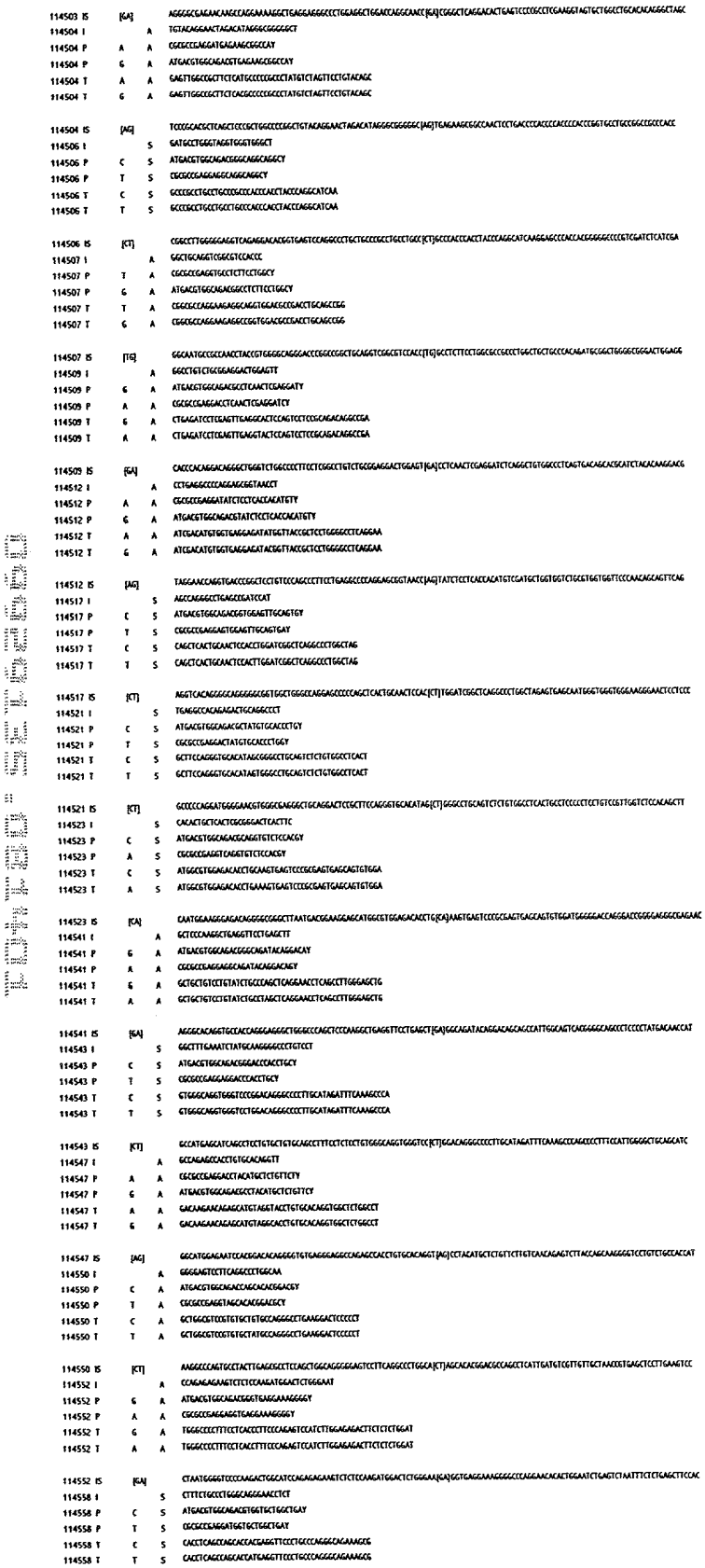
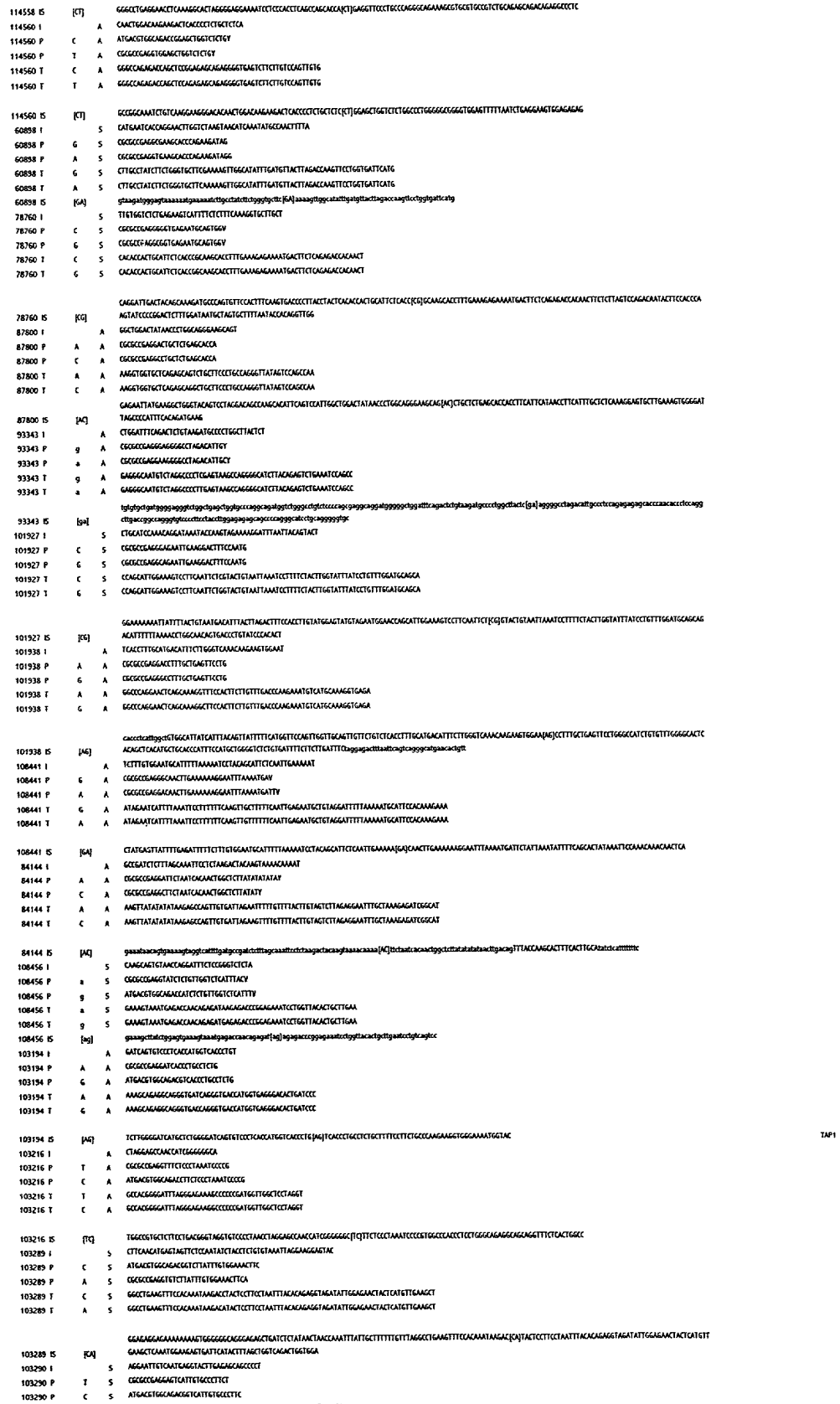
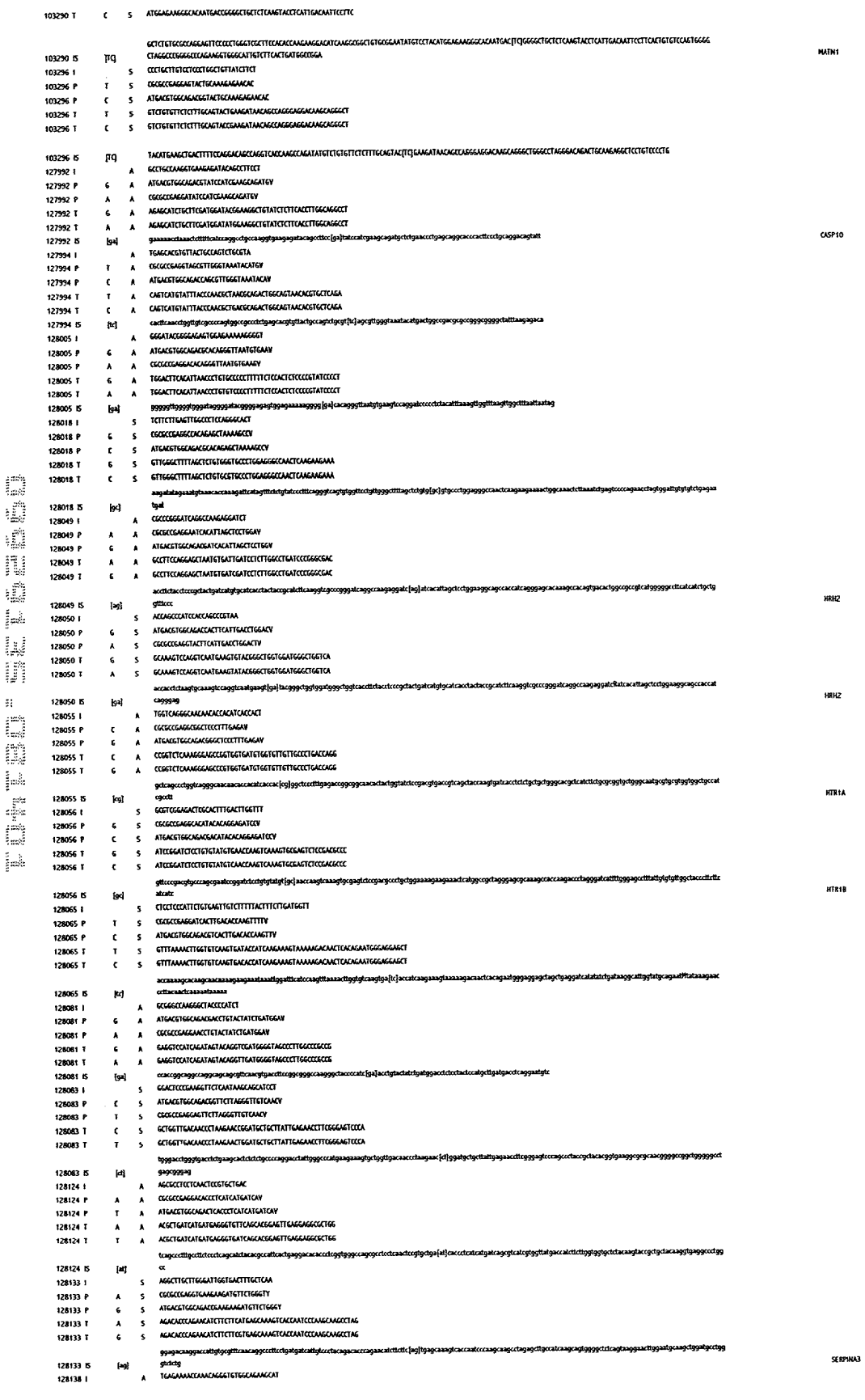

114503 IS [GA] AGGGGCGAGAACAAGCCAGGAAAAGGCTGAGGAGGGCCCTGGAGGCTGGAACAGGCAACC[GA]CGGGCTCAGGACACTGAGTCCCCGCCTCGAAGGTAGTGCTGGCCTGCACACAGGGCTAGC
114504 I A TGTACAGGAACTAGACATAGGGCGGGGGGCT
114504 P A A CGGCCCAGGATGAGAAGCGGCCAT
114504 P G A ATGACGTGGCAGACGTGAGAAGCGGCCAY
114504 T A A GAGTTGGCCGCTTCTCATGCCCCCGCCCTATGTCTAGTTCCTGTACAGC
114504 T G A GAGTTGGCCGCTTCTCACGCCCCCGCCCTATGTCTAGTTCCTGTACAGC
114504 IS [AG] TCCCGCACGCTCAGCTCCCGCTGGCCCCGGCTGTACAGGAACTAGACATAGGGCGGGGGC[AG]TGAGAAGCGGCAACTCCTGACCCCACCCCACCCCACCGGTGCCTGCCGCCGCCCACC
114506 I S GATGCCTGGGTAGGTGGGTGGGCT
114506 P C S ATGACGTGGCAGACGGGCAGGCAGGCY
114506 P T S CGCGCCCAGGAGGCAGGCAGGCY
114506 T C S GCCCGCCTGCCTGCCCGCCCACCCACCTACCCAGGCATCAA
114506 T T S GCCCGCCTGCCTGCCTGCCCACCCACCTACCCAGGCATCAA
114506 IS [CT] CGGCCTTGGGGCGAGGTCAGAGGACACGGTGAGTCCAGGCCCTGCTGCCCGCCTGCCTGCC[CT]GCCCACCCACCTACCCAGGCATCAAGGAGCCCACCACGGGGGCCCCGTCGATCTCATCGA
114507 I A GGCTGCAGGTCGGCGTCCACCC
114507 P T A CGCGCCGAGGTGCCTCTTCCTGGCY
114507 P G A ATGACGTGGCAGACGGCCTCTTCCTGGCY
114507 T T A CGGCGCCAGGAAGAGGCAGGTGGAACGCCGACCTGCAGCCGG
114507 T G A CGGCGCCAGGAAGAGCCGGTGGACGCCGACCTGCAGCCGG
114507 IS [TG] GGCAATGCCGCCAACCTACCGTGGGGCAGGCACCCGGCCCGGCTGCAGGTCGGCGTCCACC[TG]GCCTCTTCCTGGCGCCGCCCTGGCTGCTGCCCACAGATGCGGCTGGGGCGGGACTGGAGG
114509 I A GGCCTGTCTGCGGAGGACTGGAGTT
114509 P G A ATGACGTGGCAGACGCCTCAACTCGAGGATY
114509 P A A CGCGCCGAGGACCTCAACTCGAGGATCY
114509 T G A CTGAGATCCCTGGAGTTGAGGCACTCCAGTCCTCCGCAGACAGGCCGA
114509 T A A CTGAGATCCCTGGAGTTGAGGTACTCCAGTCCTCCGCAGACAGGCCGA
114509 IS [GA] CACCCACAGGACAGGGCTGGGTCTGGCCCCTTCCTCGGCCTGTCTGCGGAGGACTGGAGT[GA]CCTCAACTCGAGGATCTCAGGCTGTGGCCCTCAGTGACAGCACGCATCTACACAAGGACG
114512 I A CCTGAGGCCCCAGGAGCGGTAACCT
114512 P A A CGCGCCGAGGATATCTCCTCACCACATGTY
114512 P G A ATGACGTGGCAGACGTATCTCCTCACCACATGTY
114512 T A A ATCGACATGTGGTGAGGAGATATGGTTACCGCTCCTGGGGCCTCAGGAA
114512 T G A ATCGACATGTGGTGAGGAGATACGGTTACCGCTCCTGGGGCCTCAGGAA
114512 IS [AG] TAGGAACCAGGTGACCCGGCTCCTGTCCCAGCCCTTCCTGAGGCCCAGGAGCGGTAACC[AG]TATCTCCTCACCACATGTCGATGCTGGTGGTCTGCGTGGTGGTTCCCAACAGCAGTTCAG
114517 I S AGCCAGGGCCTGAGCCGATCCAT
114517 P C S ATGACGTGGCAGACGGTGGAGTTGCAGTGY
114517 P T S CGCGCCGAGGAGTGGAGTTGCAGTGAY
114517 T C S CAGCTCACTGCAACTCCACCTGGATCGGCTCAGGCCCTGGCTAG
114517 T T S CAGCTCACTGCAACTCCACTTGGATCGGCTCAGGCCCTGGCTAG
114517 IS [CT] AGGTCACAGGGGCAGGGGGGGGTGGCTGGGGCAGGAGCCCCCAGCTCACTGCAACTCCAC[CT]TGGATCGGCTCAGCCCTGGCTAGAGTGAGCAATGGGTGGGTGGGAAGGGAACTCCTCCC
114521 I S TGAGGCCACAGAGACTGCAGGCCCT
114521 P C S ATGACGTGGCAGACGCTATGTGCACCCTGY
114521 P T S CGCGCCGAGGACTATGTGCACCCTGGY
114521 T C S GCTTCCAGGGTGCACATAGCGGGCCTGCAGTCTCTGTGGCCTCACT
114521 T T S GCTTCCAGGGTGCACATAGTGGGCCTGCAGTCTCTGTGGCCTCACT
114521 IS [CT] GCCCCCAGGATGGGGAACGTGGGCGAGGGCTGCAGGACTCCGCTTCCAGGGTGCACATAG[CT]GGGCCTGCAGTCTCTGTGGCCTCACTGCCTCCCCCTCCTGTCCGTTGGTCTCCACAGCTT
114523 I S CACACTGCTCACTGGCGGCACTCACTTC
114523 P C S ATGACGTGGCAGACGCAGGTGTCTCCACGY
114523 P A S CGCGCCGAGGTCAGGTGTCTCCACGY
114523 T C S ATGGCGTGGAGACACCTGCAAGTGAGTCCCGCGAGTGAGCAGTGTGGA
114523 T A S ATGGCGTGGAGACACCTGAAAGTGAGTCCCGCGAGTGAGCAGTGTGGA
114523 IS [CA] CAATGGAAGGCAGACAGGGGCGGGCTTAATGACGGAAGGAGCATGGCGTGGAGACACCTG[CA]AAGTGAGTCCCGCAGTGAGCAGTGTGGATGGGGGACCAGGGACCGGGCAGGGCGAGAAC
114541 I A GCTCCCAAGGCTGAGGTTCCTGAGCTT
114541 P G A ATGACGTGGCAGACGGGCAGATACAGGACAT
114541 P A A CGGGCCCAAGGAGGCAGATACAGGACAGY
114541 T G A GCTGCTGTCCTGTATCTGCCCAGCTCAGGAACCTCAGCCTTGGGAGCTG
114541 T A A GCTGCTGTCCTGTATCTGCCTAGCTCAGGAACCTCAGCCTTGGGAGCTG
114541 IS [GA] AGGGCACAGGTGCCACCAGGGAGGGCTGGGCCCAGCTCCCAAGGCTGAGTTCCTGAGCT[GA]GGCAGATACAGGACAGCAGCCATTGGCAGTCACGGGGCAGCCTCCCCTATGACAACCAT
114543 I S GGCTTTGAAATCTATGCAAGGGGCCCTGTCCT
114543 P C S ATGACGTGGCAGACGGGACCCACCTGCY
114543 P T S CGCGCCGAGGAGGACCCACCTGCY
114543 T C S GTGGGCAGGTGGGTCCCGACAGGGCCCCTTGCATAGATTTCAAAGCCCA
114543 T T S GTGGGCAGGTGGGTCCTGGACAGGGCCCCTTGCATAGATTTCAAAGCCCA
114543 IS [CT] GCCATGAGCATCAGCCTCCTGTGCTGTGCAGCCTTTCCTCTCCTGTGGGCAGGTGGGTCC[CT]GGACAGGGCCCCTTGCATAGATTTCAAAGCCCAGCCCCTTTCCATTGGGGCTGCAGCATC
114547 I A GCCAGAGCCACCTGTGCACAGGTT
114547 P A A CGCGCCGAGGACCTACATGCTCTGTTCTY
114547 P G A ATGACGTGGCAGACGCCTACATGCTCTGTTCTY
114547 T A A GACAAGAACAGAGCATGTAGGTACCTGTGCACAGGTGGCTCTGGCCT
114547 T G A GACAAGAACAGAGCATGTAGGCACCTGTGCACAGGTGGCTCTGGCCT
114547 IS [AG] GGCATGGAGAATCCACGGACACAGGGGTGTGAGGGAGGCCAGAGCCACCTGTGCACAGGT[AG]CCTACATGCTCTGTTCTTGTCAACAGAGTCTTACCAGCAAGGGGTCCTGTCTGCCACCAT
114550 I A GGGGAGTCCTTCAGGCCCTGGCAA
114550 P C A ATGACGTGGCAGACCAGCACACGGACGY
114550 P T A CGCGCCGAGGTAGCACACGGACGCY
114550 T C A GCTGGCGTCCGTGTGCTGTGCCAGGGCCTGAAGGACTCCCCCT
114550 T T A GCTGGCGTCCGTGTGCTATGCCAGGGCCTGAAGGACTCCCCCT
114550 IS [CT] AAGGCCCAGTGCCTACTTGAGCGCCTCCAGCTGGCAGGGGGAGTCCTTCAGGCCCTGGCA[CT]AGCACACGGACGCCAGCCTCATTGATGTCGTTGTTGCTAACCGTGAGCTCCTTGAAGTCC
114552 I A CCAGAGAGAAGTCTCTCCAAGATGGACTCTGGGAAT
114552 P G A ATGACGTGGCAGACGGGTGAGGAAAGGGGY
114552 P A A CGCGCCGAGGAGGTGAGGAAAGGGGY
114552 T G A TGGGCCCCTTTCCTCACCTTCCCAGAGTCCATCTTGGAGAGACTTCTCTCTGGAT
114552 T A A TGGGCCCCTTTCCTCACCTTCCCAGAGTCCATCTTGGAGAGACTTCTCTCTGGAT
114552 IS [GA] CTAATGGGGTCCCCAAGACTGGCATCCAGAGAGAAGTCTCTCCAAGATGGACTCTGGGAA[GA]GGTGAGGAAAGGGCCCCAGGAACACACTGGAATCTGAGTCTAATTTCTCTGAGCTTCCAC
114558 I S CTTTCTGCCCTGGGCAGGGAACCTCT
114558 P C S ATGACGTGGCAGACGTGGTGCTGGCTGAY
114558 P T S CGCGCCGAGGATGGTGCTGGCTGAY
114558 T C S CACCTCAGCCAGCACCACGAGGTTCCCTGCCCAGGGCAGAAAGCG
114558 T T S CACCTCAGCCAGCACCATGAGGTTCCCTGCCCAGGGCAGAAAGCG

FIGURE 129G



Confidential Property of Millennium Pharmaceuticals, Inc.

FIGURE 129G



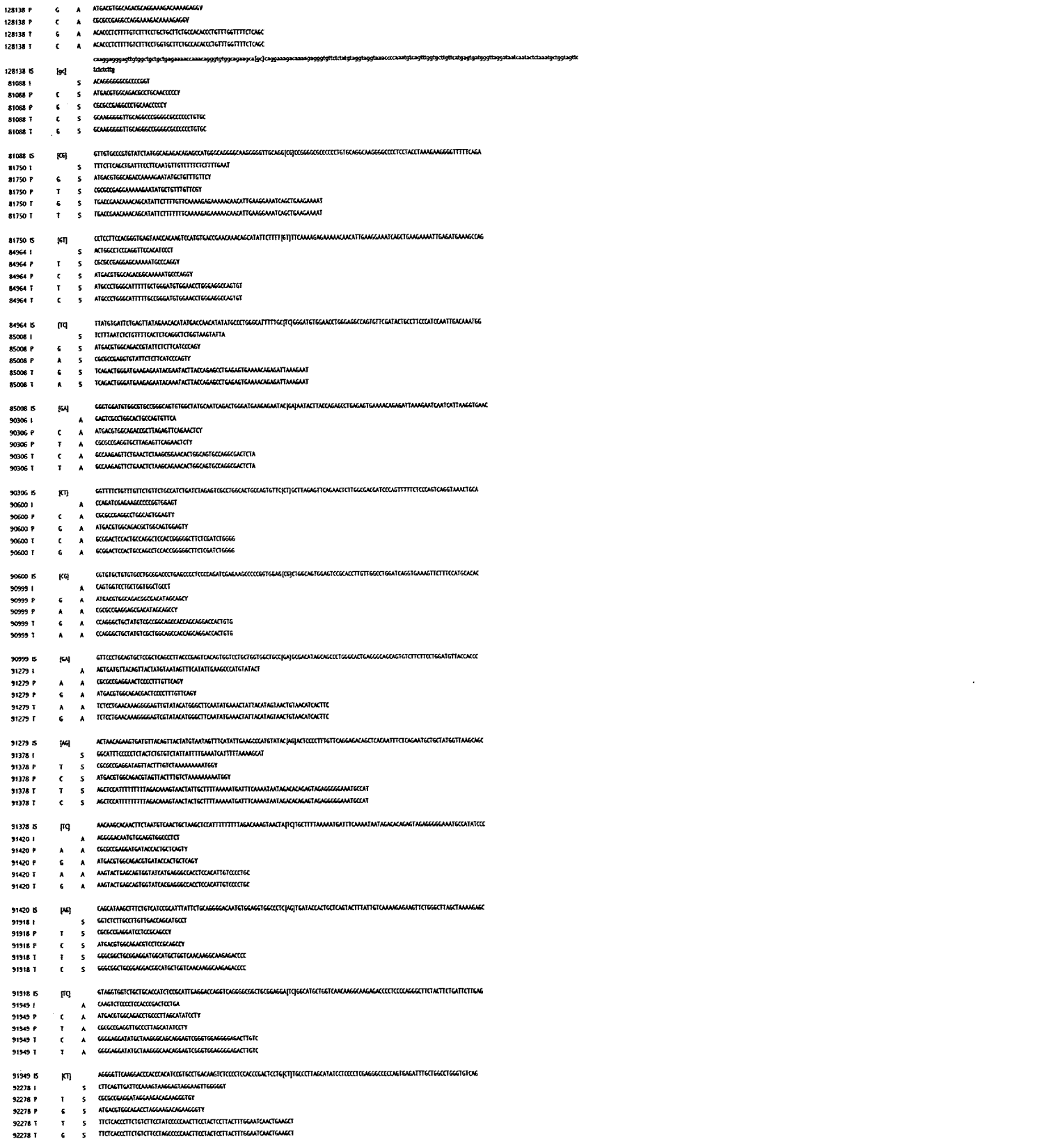


FIGURE 129G

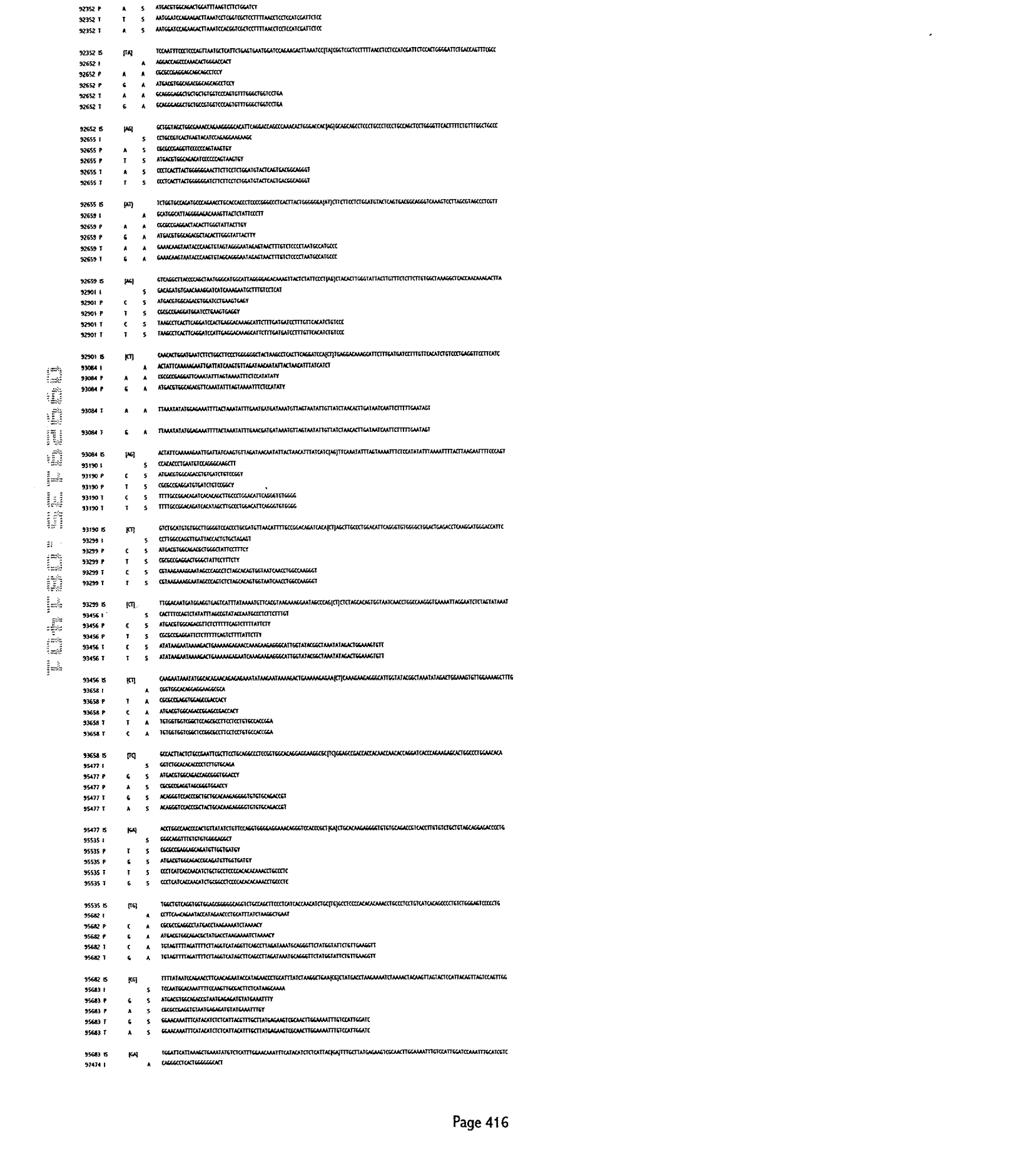

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92352 IS [TA] TCCAATTTCCCTCCCAGTTAATGCTCATTCTGAGTGAATGGATCCAGAAGACTTAAATCC[TA]CGGTCGCTCCTTTTAACCTCCTCCATCGATTCTCCACTGGGGATTCTGACCAGTTTCGCC
92652 I A AGGACAGCCCAAACACTGGGACCACT
92652 P A A CGCGCCGAGGAGCAGCAGCCTCCY
92652 P G A ATGACGTGGCAGACGGCAGCAGCCTCCY
92652 T A A GCAGGGAGGCTGCTGCTGTGGTCCCAGTGTTTGGGCTGGTCCTGA
92652 T G A GCAGGGAGGCTGCTGCCGTGGTCCCAGTGTTTGGGCTGGTCCTGA
92652 IS [AG] GCTGGTAGCTGGCGAAACCAGAAGGGGCACATTCAGGACCAGCCCAAACACTGGGACCAC[AG]GCAGCAGCCTCCCTGCCCTCCCTGCCAGCTCCTGGGGTTCACTTTTCTGTTTGGCTGCCC
92655 I S CCTGCCGTCACTGAGTACATCCAGAGGAAGAAGC
92655 P A S CGCGCCGAGGTTCCCCCCAGTAAGTGY
92655 P T S ATGACGTGGCAGACATCCCCCAGTAAGTGY
92655 T A S CCCTCACTTACTGGGGGGAACTTCTTCCCTCTGGATGTACTCAGTGACGGCAGGGT
92655 T T S CCCTCACTTACTGGGGGGATCTTCTTCCCTCTGGATGTACTCAGTGACGGCAGGGT
92655 IS [AT] TCTGGTGCCAGATGCCCAGAACCTGCACCACCCTCCCCGGGCCCTCACTTACTGGGGGGA[AT]CTTCTTCCTCTGGATGTACTCAGTGACGGCAGGGTCAAAGTCCTTAGCGTAGCCCTCGTT
92659 I A GCATGGCATTAGGGGAGACAAGTTACTCTATTCCCTT
92659 P A A CGCGCCGAGGACTACACTTGGGTATTACTTGY
92659 P G A ATGACGTGGCAGACGCTACACTTGGGTATTACTTY
92659 T A A GAAACAAGTAATACCCAAGTGTAGTAGGGAATAGAGTAACTTTGTCTCCCCTAATGCCATGCCC
92659 T G A GAAACAAGTAATACCCAAGTGTAGCAGGGAATAGAGTAACTTTGTCTCCCCTAATGCCATGCCC
92659 IS [AG] GTCAGGCTTACCCCAGCTAATGGGCATGGCATTAGGGGAGACAAAGTTACTCTATTCCCT[AG]CTACACTTGGGTATTACTTGTTTCTCTTCTTGTGGCTAAAGGCTCACCAACAAAGACTTA
92901 I S GACAGATGTGAACAAAGGATCATCAAGAATGCTTTGTCCTCAT
92901 P C S ATGACGTGGCAGACGTGGATCCTGAAGTGAGY
92901 P T S CGCGCCGAGGATGGATCCTGAAGTGAGGY
92901 T C S TAAGCCTCACTTCAGGATCCACTGAGCACAAAGCATTCTTTGATGATCCTTTGTTCACATCTGTCCC
92901 T T S TAAGCCTCACTTCAGGATCCATTGAGGACAAAGCATTCTTTGATGATCCTTTGTTCACATCTGTCCC
92901 IS [CT] CAACACTGGATGAATCTTCTGGCTTCCCTGGCGGGCTACTAAGCCTCACTTCAGGATCCA[CT]TGAGGACAAAGCATTCTTTGATGATCCTTTGTTCACATCTGTCCCTGAGGTTCCTTCATC
93084 I A ACTATTCAAAAAGAATTGATTATCAAGTGTTAGATAACAATATTACTAACATTTATCATCT
93084 P A A CGCGCCGAGGAATTCAAATATTTAGTAAAATTTCTCCATATATY
93084 P G A ATGACGTGGCAGACGTTCAAATATTTAGTAAAATTTCTCCATATY
93084 T A A TTAAATATATGGAGAAATTTTACTAAATATTTGAATGATGATAAATGTTAGTAATATTGTTATCTAACACTTGATAATCAATTCTTTTTGAATAGT
93084 T G A TTAAATATATGGAGAAATTTTACTAAATATTTGAACGATGATAAATGTTAGTAATATTGTTATCTAACACTTGATAATCAATTCTTTTTGAATAGT
93084 IS [AG] ACTATTCAAAAAGAATTGATTATCAAGTGTTAGATAACAATATTACTAACATTTATCAT[AG]TTCAAATATTTAGTAAAATTTCTCCATATATTTAAAATTTTACTTAACAATTTTCCCAGT
93190 I S CCACACCCTGAATGTCCAGGGCAAGCTT
93190 P C S ATGACGTGGCAGACGTGTGATCTGTCCGGY
93190 P T S CGCGCCGAGGATGTGATCTGTCCGGCY
93190 T C S TTTTGCCGGACAGATCACACAGCTTGCCCTGGACATTCAGGGTGTGGGG
93190 T T S TTTTGCCGGACAGATCACATAGCTTGCCCTGGACATTCAGGGTGTGGGG
93190 IS [CT] GTCTGCATGTGTGGCTTGGGGTCCACCCTGCGATGTTAACATTTTGCCGGACAGATCACA[CT]AGCTTGCCCTGGACATTCAGGGTGTGGGGCTGGACTGAGACCTCAAGGATGGGACCATTC
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93299 P C S ATGACGTGGCAGACGCTGGGCTATTCCTTTCY
93299 P T S CGCGCCGAGGACTGGGCTATTCCTTTCTY
93299 T C S CGTAAGAAAGGAATAGCCCAGCCTCTAGCACAGTGGTAATCAACCTGGCCAAGGGT
93299 T T S CGTAAGAAAGGAATAGCCCAGTCTCTAGCACAGTGGTAATCAACCTGGCCAAGGGT
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93456 P C S ATGACGTGGCAGACGTTCTCTTTTTCAGTCTTTTATTCTY
93456 P T S CGCGCCGAGGATTCTCTTTTTCAGTCTTTTATTCTTY
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93658 P C A ATGACGTGGCAGACCGGAGCCGACCACY
93658 T T A TGTGGTGGTCGGCTCCAGCGCCTTCCTCCTGTGCCACCGGA
93658 T C A TGTGGTGGTCGGCTCCGGCGCCTTCCTCCTGTGCCACCGGA
93658 IS [TC] GCCACTTACTCTGCCCAATTCGCTTCCTGCAGGCCCTCCGGTGGCACAGGAGGAAGCGCC[TC]GGAGCCGACCACCACAACCAACACCAGGATCACCCAGAAGAGCACTGGCCCTGGAACACA
95477 I S GGTCTGCACACACCCCTCTTGTGCAGA
95477 P G S ATGACGTGGCAGACCAGCGGGTGGACCY
95477 P A S CGCGCCGAGGTAGCGGGTGGACCY
95477 T G S ACAGGGTCCACCCGCTGCTGCACAAGAGGGGTGTGTGCAGACCGT
95477 T A S ACAGGGTCCACCCGCTACTGCACAAGAGGGGTGTGTGCAGACCGT
95477 IS [GA] ACCTGGCCAACCCCACTGTTATATCTGTTCCAGGTGGGGAGGAAACAGGGTCCACCCGCT[GA]CTGCACAAGAGGGGTGTGTGCAGACCGTCACCTTGTGTCTGCTGTAGCAGAGACACCCTG
95535 I S GGGCAGGTTTGTGTGTGGGGAGGCT
95535 P T S CGCGCCGAGGAGCAGATGTTGGTGATGY
95535 P G S ATGACGTGGCAGACCGCAGATGTTGGTGATGY
95535 T T S CCCTCATCACCAACATCTGCTGCCTCCCCACACACAAACCTGCCCTC
95535 T G S CCCTCATCACCAACATCTGCGGCCTCCCCACACACAAACCTGCCCTC
95535 IS [TG] TGGCTGTCAGGTGGTGGAGCGGGGGGAGCTCTGCCAGCTTCCCTCATCACCAACATCTGC[TG]GCCTCCCCACACACAAACCTGCCCTCCTGTCATCACAGCCCCTGTCTGGGAGTCCCCCTG
95682 I A CCTTCAACAGAATACCATAGAACCCTGCATTTATCTAAGGCTGAAT
95682 P C A CGCGCCGAGGCCTATGACCTAAGAAAATCTAAAACY
95682 P G A ATGACGTGGCAGACGCTATGACCTAAGAAAATCTAAAACY
95682 T C A TGTAGTTTTAGATTTTCTTAGGTCATAGGTTCAGCCTTAGATAAATGCAGGGTTCTATGGTATTCTGTTGAAGGTT
95682 T G A TGTAGTTTTAGATTTTCTTAGGTCATAGCTTCAGCCTTAGATAAATGCAGGGTTCTATGGTATTCTGTTGAAGGTT
95682 IS [CG] TTTTATAATCCAGAACCTTCAACAGAATACCATAGAACCCTGCATTTATCTAAGGCTGAA[CG]CTATGACCTAAGAAAATCTAAAACTACAAGTTAGTACTCCATTACAGTTAGTCCAGTTGG
95683 I S TCCAATGGACAAATTTTCCAAGTTGCCACTTCTCATAAGCAAAA
95683 P G S ATGACGTGGCAGACGTAATGAGAGATGTATGAAATTTGY
95683 P A S CGCGCCGAGGTGTAATGAGAGATGTATGAAATTTGY
95683 T G S GGAACAAATTTCATACATCTCTCATTAGGTTTGCTTATGAGAAGTCGCAACTTGGAAAATTTGTCCATTGGATC
95683 T A S GGAACAAATTTCATACATCTCTCATTACATTTGCTTATGAGAAGTCGCAACTTGGAAAATTTGTCCATTGGATC
95683 IS [GA] TGGATTCATTAAAGCTGAAATATGTCTCATTTGGAACAAATTTCATACATCTCTCATTAC[GA]TTTGCTTATGAGAAGTCGCAACTTGGAAAATTTGTCCATTGGATCCAAATTTGCATCGTC
97474 I A CAGGGCCTCACTGGGGGGCACT

FIGURE 129G

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97474 P     G     A   ATGACGTGGCAGAGTTGGCTGCCCAGAY
97474 P     A     A   CGCGCCGAGGATTGGCTGCCCAGAAY
97474 T     G     A   CCGCTTCTGGGCAGCCAACGTGCCCCCCAGTGAGGCCCTGCA
97474 T     A     A   CCGCTTCTGGGCAGCCAATGTGCCCCCCAGTGAGGCCCTGCA

97474 IS    [GA]      CAGGTGGCAACCGCCGGGTGCTGGGGCTGCTGCTGGGCTGCAGGGCCTCACTGGGGGGCAC[GA]TTGGCTGCCCAGAAGCGGTTCCCAGGGCCATTCCCCAGCTGTAAGAAGAGCTGTGGGGGT
97589 I           S   TGTGATAATTTATTTTTAAGTGAAATATGCTATCATAGCCTGACTTTATGTATAGTGGA
97589 P     A     S   CGCGCCGAGGTGACAACTTGCAGGATCY
97589 P     G     S   ATGACGTGGCAGACCGACAACTTGCAGGATCY
97589 T     A     S   ATGCGATCCTGCAAGTTGTCAGCACTATACATAAAGTCAGGCTATGATAGCATATTTCACTTAAAAATAAATTATCACAAT
97589 T     G     S   ATGCGATCCTGCAAGTTGTCGCCACTATACATAAAGTCAGGCTATGATAGCATATTTCACTTAAAAATAAATTATCACAAT

97589 IS    [AG]      AAGCATCTACACCTCAGCTGTCGGCCGTTTGGTTACAGAAATGCGATCCTGCAAGTTGTC[AG]CCACTATACATAAAGTCAGGCTATGATAGCATATTTCACTTAAAAATAAATTATCACAAT
97654 I           S   GAGGCCTTACACCTTTAGCGTCCTTCTACACTATGCC
97654 P     A     S   CGCGCCGAGGTGTCCAATCTGCACCAY
97654 P     C     S   ATGACGTGGCAGACCGGTCCAATCTGCACCY
97654 T     A     S   TTCATGGTGCAGATTGGACAGGATAGTGTAGAAGGACGCTAAAGGTGTAAGGCCTCAC
97654 T     C     S   TTCATGGTGCAGATTGGACCGCATAGTGTAGAAGGACGCTAAAGGTGTAAGGCCTCAC

97654 IS    [AC]      TCCCCAGCACTAAGGAGAAACCAGAGACACGTGACCTAAGTTTCATGGTGCACGATTGGAC[AC]GCATAGTGTAGAAGGACGCTAAAGGTGTAAGGCCTCACAAAGGCAGTTAATTCTCTAAAG
97822 I           S   GACAAAACTGCAGAATCAACTGTCCATCCTCTTTGCTTTTCTTATT
97822 P     T     S   CGCGCCCAGGATAAGTTATTTCTGAGATATAATCAAAACY
97822 P     C     S   ATGACGTGGCAGACGTAAGTTATTTCTGAGATATAATCAAAACY
97822 T     T     S   TTTGGTTTTGATTATATCTCAGAAATAACTTATATAAGAAAAGCAAAGAGGATGGACAGTTGATTCTGCAGTTTTGTCAC
97822 T     C     S   TTTGGTTTTGATTATATCTCAGAAATAACTTACATAAGAAAAGCAAAGAGGATGGACAGTTGATTCTGCAGTTTTGTCAC

97822 IS    [TC]      GGTAATTGTTCCTATTCCTGACTCTTTGTTTGGTTTGATTATATCTCAGAAATAACTTA[TC]ATAAGAAAAGCAAAGAGGATGGACAGTTGATTCTGCAGTTTTGTCACAGTGCCTAGGAGA
98009 I           A   CAGGCAGAAACCTGCCCTTCTGCAAACTCTATT
98009 P     C     A   ATGACGTGGCAGACCTCTCCCCCTCCTGY
98009 P     A     A   CGCGCCCAGGATCTCCCCCTCCTGY
98009 T     C     A   CTCCCAGGAGGGGGAAACAGATAGAGTTTGCAGAAGGGCAGGTTTCTGCCTGCC
98009 T     A     A   CTCCCAGGAGGGGGAAACATATAGAGTTTGCAGAAGGGCAGGTTTCTGCCTGCC

98009 IS    [CA]      GGTGTTGGAGCATAACAGGCTTGGGAGGCAGGCAGAAACCTGCCCTTCTGCAAACTCTAT[CA]TCTTCCCCCTCCTGGGAGCAGACAGGATGGCGCTGTGGCCTGAAGCAGCTGTCCCTCCT
98017 I           S   CACATGATGGGGTTTGCGGCACAGCAGCT
98017 P     C     S   ATGACGTGGCAGACGGGAGCTCAGAGAAGGY
98017 P     T     S   CGCGCCGAGGAGGAGCTCAGAGAAGGY
98017 T     C     S   CCGCCCTTCTCTGAGCTCCCGCTCCTGTCCGCAAACCCCATCATGTGTG
98017 T     T     S   CCGCCCTTCTCTGAGCTCCTGCTCCTGTCCGCAAACCCCATCATGTGTG

98017 IS    [CT]      CCTCATTTTGGCCGGGGACAAAGGCTTTTACCCAGCCTCCCCGCCCTTCTCTGAGCTCC[CT]GCTCCTGTCCGCAAACCCCATCATGTGTGCTCGGGCCCTGGGACAAACCTGAAACTCCCC
98422 I           A   GGGGTAACTTGCACCAACACACTGGGGAAA
98422 P     C     A   ATGACGTGGCAGACCGCGGGGACGTGGY
98422 P     T     A   CGCGCCGAGGTGGGGGACGTGGY
98422 T     C     A   CTCGCCACGTCCCCCGTTCCCCAGTGTGTTGGTGCAAGTTACCCCAA
98422 T     T     A   CTCGCCACGTCCCCCATTCCCCAGTGTGTTGGTGCAAGTTACCCCAA

98422 IS    [CT]      GCTGGGCACATGTGATCTCCTTACTTTGCTTGGGGTAACTTGCCACCAACACACTGGGGAA[CT]GGGGGACGTGGCGAGTTTAGGGTCTGTCCCCATGCTCAGCACACAGTAGTTGGCCCCTGA
98495 I           A   GCGATGTCAGCCTAGCGAAGGCAGACA
98495 P     C     A   ATGACGTGGCAGACCTGCTCCTGATGAGAAGY
98495 P     T     A   CGCGCCGAGGTTGCTCCTGATGAGAAGY
98495 T     C     A   AGCACCTTCTCATCAGGAGCAGCGTCTGCCTTCGCTAGGCTGACATCGCGG
98495 T     T     A   AGCACCTTCTCATCAGGAGCAACGTCTGCCTTCGCTAGGCTGACATCGCGG

98495 IS    [CT]      ACCCAGGCCCACTCTCCCTGCTGCAGGGTCCCGCGATGTCAGCCTAGCGAAGGCAGACG[CT]TGCTCCTGATGAGAAGGTGCTAGACTCTGGTTTCCGGGAGATTGAGAACAAGCCATTCA
99685 I           S   TGCCTCATGTAAGTTGTCCTTGCCCTTTGCCA
99685 P     A     S   CGCGCCGAGGTTTCTAGAGGTGCAAAAAATAAAAT
99685 P     G     S   ATGACGTGGCAGACCTTCTAGAGGTGCAAAAAATAAAY
99685 T     A     S   TGCATTTTATTTTTTGCACCTCTAGAAAGGCAAAGGCAAGGACAACTTACATGAGGCAGT
99685 T     G     S   TGCATTTTATTTTTTGCACCTCTAGAAAGGCAAAGGCAAGGACAACTTACATGAGGCAGT

99685 IS    [AG]      ATAGTAGTTTCCTAACTTCCTGCATAGTAGGCCTGCATTTTATTTTTTGCACCTCTAGAA[AG]GGCAAAGGGCAAGGACAACTTACATGAGGCAGTTTCATGATAAAGTCATAGGCATTGGCT
99790 I           S   TTAACAGCAAAATGTAAAACAAAAATATTTTCAAAGCAAAAATAGAATTTAAACAAACT
99790 P     G     S   CGCGCCGAGGCTGTTTGAACCCAGGAGT
99790 P     C     S   ATGACGTGGCAGACGTGTTTGAACCCAGGAGY
99790 T     G     S   CAGACTCCTGGGTTCAAAACAGGTTTGGTTTAAATTCTATTTTTGCTTTGAAAATTATTTTTGTTTTACATTTTGCTGTTAA
99790 T     C     S   CAGACTCCTGGGTTCAAAACAGGTTTGGTTTAAATTCTATTTTTGCTTTGAAAATTATTTTTGTTTTACATTTTGCTGTTAA

99790 IS    [GC]      TCACAGATGAGGGCGGGGTGCTTTGAGTCTCGTAGGCAACAGACTCTGGGTTCAAAACA[GC]GTTTGGTTTAAATTCTATTTTTGCTTTGAAAATTATTTTTGTTTTACATTTTGCTGTTAA
99947 I           S   CAAGAGAAAGGCTGGTACAGTAAGAAGAAGAAGCAAAGCCC
99947 P     C     S   ATGACGTGGCAGACGTCCCCTGGCAACTY
99947 P     A     S   CGCGCCGAGGTTCCCCTGGCAACTGY
99947 T     C     S   CAAACAGTTGCCAGGGGCAGGCTTTCCTCTCTCTTACTGGTACCAGCCTTTCTCTTGCA
99947 T     A     S   CAAACAGTTGCCAGGGGCAAGGCTTTCCTCTCTCTTACTGGTACCAGCCTTTCTCTTGCA

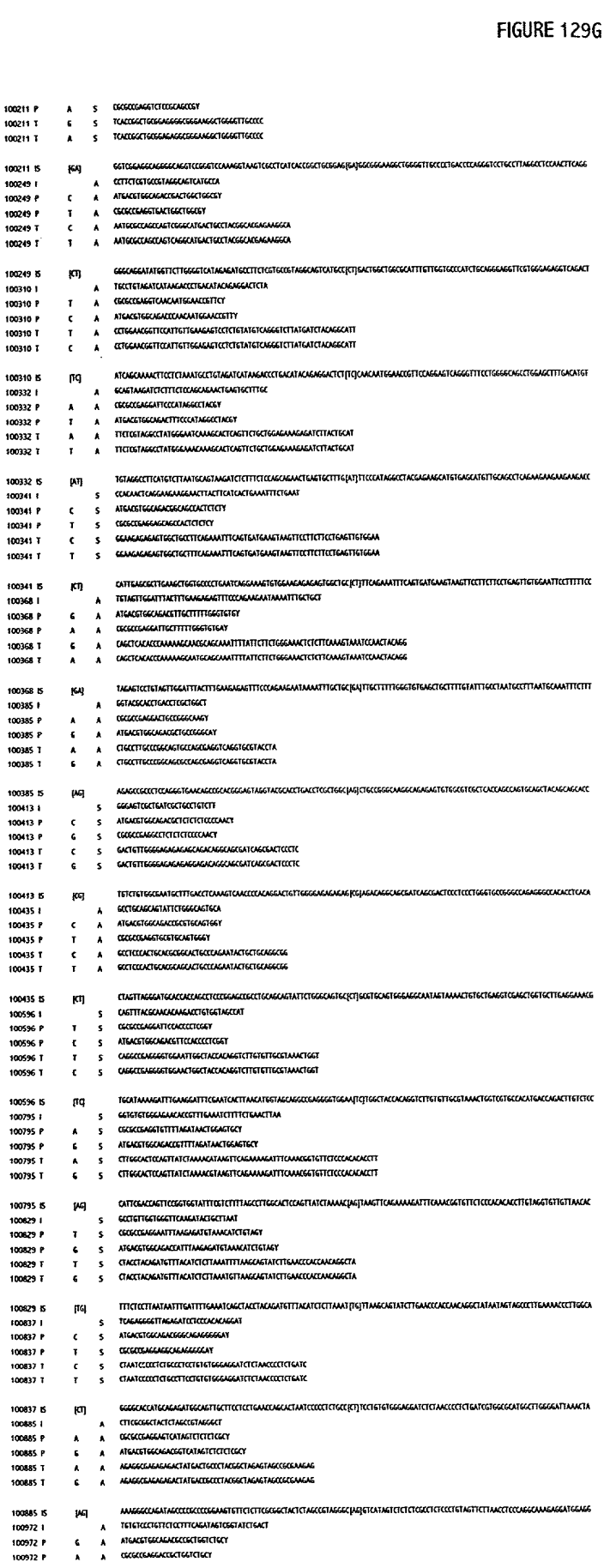
99947 IS    [CA]      TGGTGTGGTTTTTAGGATTTTATTTTGCAGCAGCATCTCTCCTCAAACAGTTGCCAGGGGA[CA]GGCTTTCCTTCTTCTTACTGGTACCAGCCTTTCTCTTGCAGACAAGGCAGTATGGGAGGG
100055 I          A   AGGAGCCTGGGCTGAGGCCATA
100055 P    C     A   ATGACGTGGCAGACCTGCCCCCGACY
100055 P    T     A   CGCGCCGAGGTCTGCCCCCGACTY
100055 T    C     A   GTGAAGTCCGGGGCAGGATGGCCTCAGGCCCAGGCTCCTGT
100055 T    T     A   GTGAAGTCGGGGGCAGAATGGCCTCAGGCCCAGGCTCCTGT

100055 IS   [CT]      CCCCTCCTCCCAAATCCAGAGCAGGGCCAAGGGGTCACAGGAGCCTGGGCCTGAGGCCAT[CT]CTGCCCCCGACTTCACCCAAAGGAGGACTTCCCCACTCACTGTCCCCCTGAGCCCAGAGG
100086 I          S   CCAGGGTAGTCACCGCGCAGTGAAGAT
100086 P    G     S   CGCGCCGAGGCACAAGACGCCCCY
100086 P    C     S   ATGACGTGGCAGACGACAAGACGCCCCGY
100086 T    G     S   GCACCCGGGCGTCTGTGTCTTCACTGCGCGCGGTGACTACCCTGGCC
100086 T    C     S   GCACCCGGGCGTCTTGTCTCTTCACTGCGCGGTGACTACCCTGGCC

100086 IS   [GC]      TCAGTCCTGTTCAGCCATAAAATGGCAGCTGCGCTGACAGCCGGCACCCGGGCGTCTTGT[GC]TCTTCACTGCGCGGTGACTACCCTGGCCTGGAGCCCTCTCTGGGCAGCTCTGCACCCGCA
100135 I          A   GGTCCTAGTGGGAGGAGTGGGGCTT
100135 P    A     A   CGCGCCGAGGAGGGGGCAGGATGY
100135 P    G     A   ATGACGTGGCAGACGGGGGGCAGGATGY
100135 T    A     A   CTGCCATCCTGCCCCCTAGCCCCACTCCTCCCACTAGGAGCCC
100135 T    G     A   CTGCCATCCTGCCCCCCAGCCCCACTCCTCCCACTAGGAGCCC

100135 IS   [AG]      GGATCAGGTTTGACTGTCCAGCAAAGAAGGGACTGGGGTCCTAGTGGGAGGAGTGGGGCT[AG]GGGGGCAGGATGGCAGGGGAGGGACACACTGTGCCTGCCACAGCCAAGTCCCCCTCCTCCCT
100211 I          S   GGCAACCCCAGCCTTCCCGCCA
100211 P    G     S   ATGACGTGGCAGACCCTCCGCAGCCGY
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FIGURE 129G



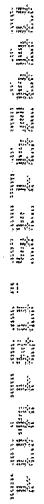
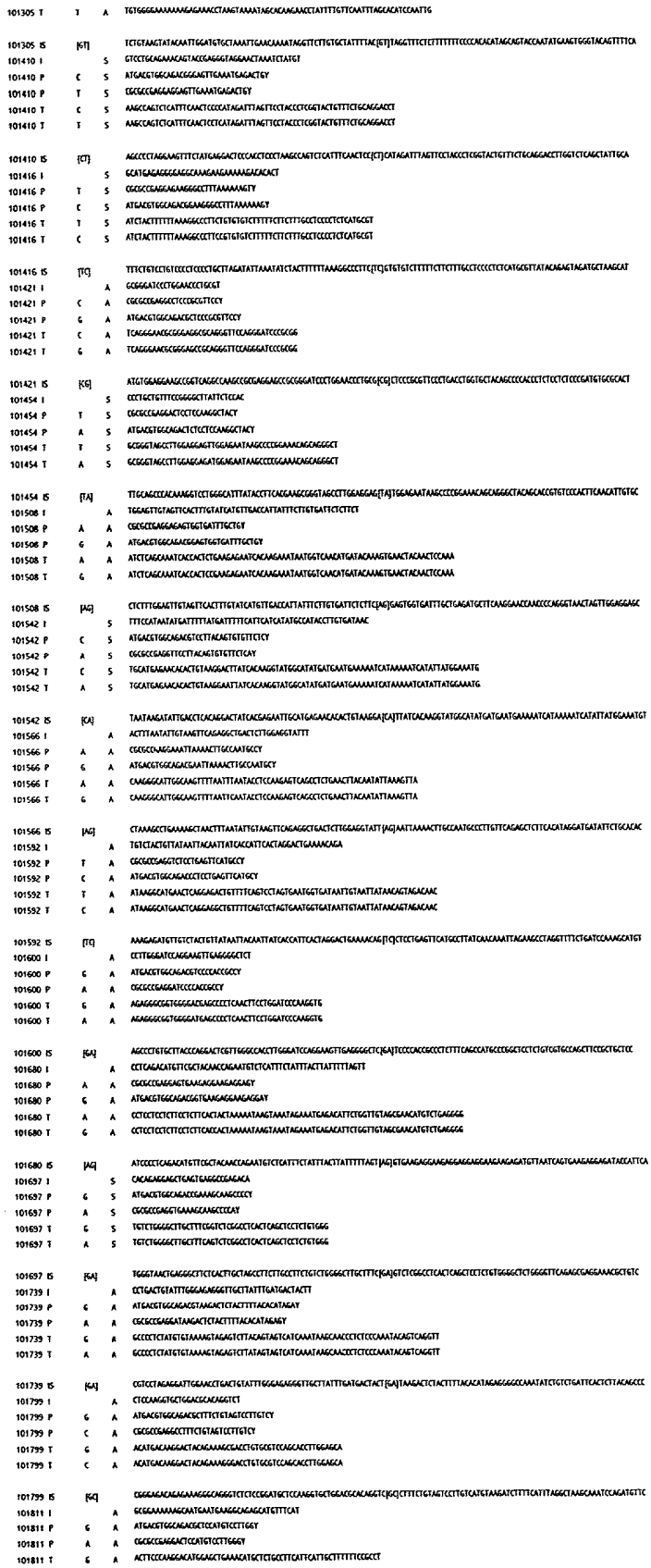
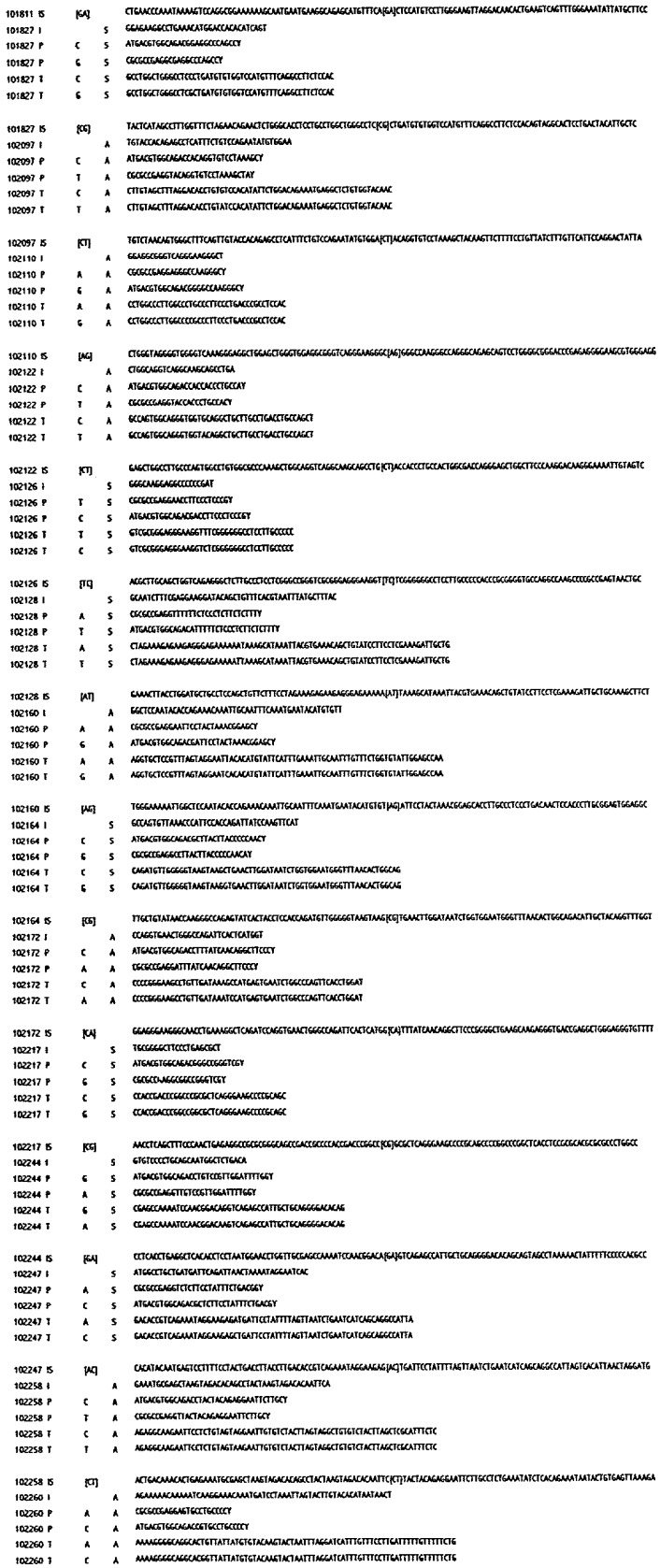
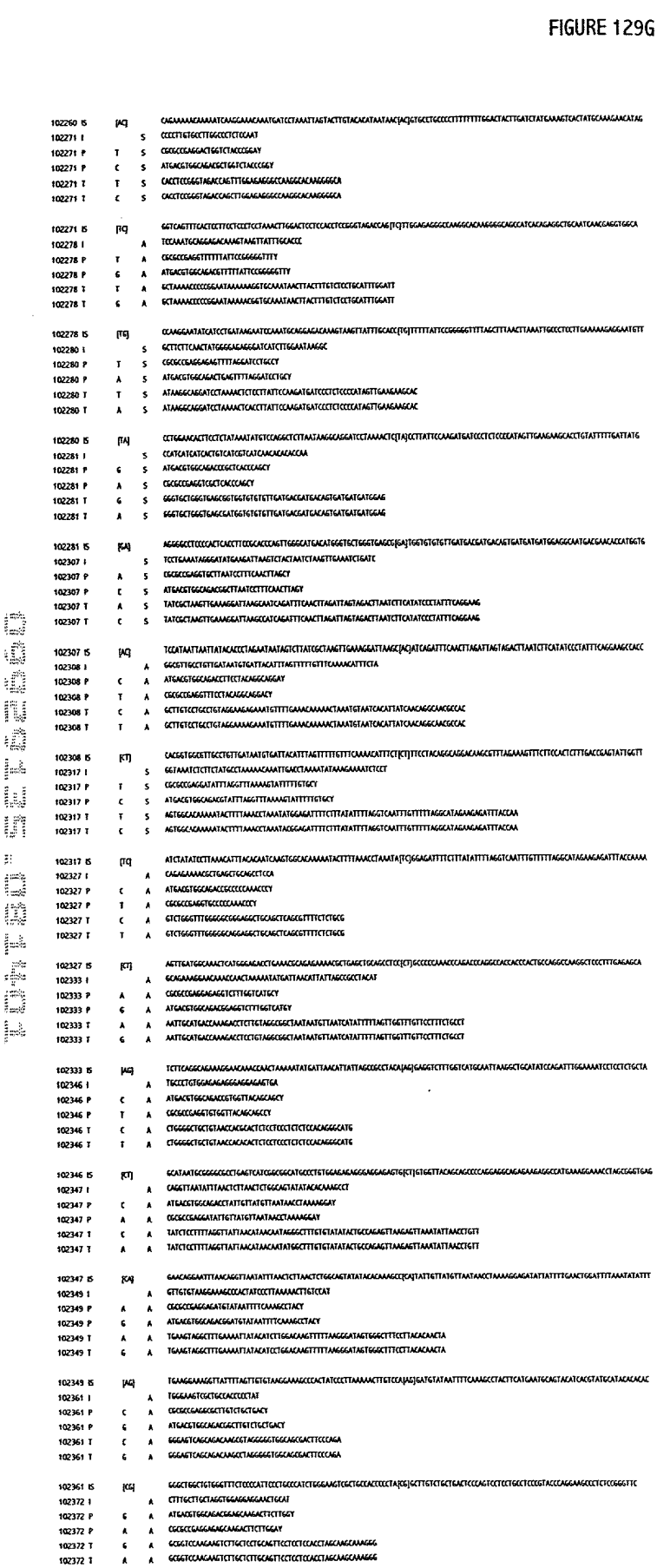


FIGURE 129G


101305 T T A TGTGGGGAAAAAAAGAGAAACCTAAGTAAAATAGCACAAGAACCTATTTTGTTCAATTTAGCACATCCAATTG
101305 IS [GT] TCTGTAAGTATACAATTGGATGTGCTAAATTGAACAAAATAGGTTCTTGTGCTATTTTAC[GT]TAGGTTTCTCTTTTTTTCCCCACACATAGCAGTACCAATATGAAGTGGGTACAGTTTTCA
101410 I S GTCCTGCAGAAACAGTACCGAGGGTAGGAACTAAATCTATGT
101410 P C S ATGACGTGGCAGACGGGAGTTGAAATGAGACTGY
101410 P T S CGCGCCGAGGAGGAGTTGAAATGAGACTGY
101410 T C S AAGCCAGTCTCATTTCAACTCCCCATAGATTTAGTTCCTACCCTCGGTACTGTTTCTGCAGGACCT
101410 T T S AAGCCAGTCTCATTTCAACTCCTCATAGATTTAGTTCCTACCCTCGGTACTGTTTCTGCAGGACCT
101410 IS [CT] AGCCCCTAGGAAGTTTCTATGAGGACTCCCACCTCCCTAAGCCAGTCTCATTTCAACTCC[CT]CATAGATTTAGTTCCTACCCTCGGTACTGTTTCTGCAGGACCTTGGTCTCAGCTATTGCA
101416 I S GCATGAGAGGGCAGGCAAAGAAGAAAAGACACACT
101416 P T S CGCGCCGAGGAGAAGGGCCTTTAAAAAAGTY
101416 P C S ATGACGTGGCAGACGGAAGGGCCTTTAAAAAGT
101416 T T S ATCTACTTTTTTAAAGGCCTTCTGTGTGTCTTTTTCTTCTTTGCCTCCCCTCTCATGCGT
101416 T C S ATCTACTTTTTTAAAGGCCTTCCGTGTGTCTTTTTCTTCTTTGCCTCCCCTCTCATGCGT
101416 IS [TC] TTTCTGTCCTGTCCCCTCCCCTGCTTAGATATTAAATATCTACTTTTTTAAAGGCCCTTC[TC]GTGTGTCTTTTTCTTCTTTGCCTCCCCTCTCATGCGTTATACAGAGTAGATGCTAAGCAT
101421 I A GCGGGATCCCTGGAACCCTGCGT
101421 P C A CGCGCCGAGGCCTCCCGCGTTCCY
101421 P G A ATGACGTGGCAGACGCTCCCGCGTTCCY
101421 T C A TCAGGGAACGCGGGAGGCGCAGGGTTCCAGGGATCCCCGCGG
101421 T G A TCAGGGAACGCGGGAGCCGCAGGGTTCCAGGGATCCCGCGG
101421 IS [CG] ATGTGGAGGAAGCCGGTCAGGCCAAGCCGGCAGGAGCCGCGGGATCCCTGGAACCCTGCG[CG]CTCCCGCGTTCCCTGACCTGGTGCTACAGCCCCACCCTCTCCTCTCCCGATGTGCGCACT
101454 I S CCCTGCTGTTTCCGGGGCTTATTCTCCAC
101454 P T S CGCGCCGAGGACTCCTCCAAGGCTACT
101454 P A S ATGACGTGGCAGACTCTCCTCCAAGGCTACY
101454 T T S GCGGGTAGCCTTGGAAGCAGTTGGAGAAATAAGCCCCGGAAACAGCAGGGCT
101454 T A S GCGGGTAGCCTTGGAAGCAGATGGAGAAATAAGCCCCGGAAACAGCAGGGCT
101454 IS [TA] TTGCAGCCCACAAAGGTCCTGGGCATTTATACCTTCACGAAGCGGGTAGCCTTGGAGGAG[TA]TGGAGAATAAGCCCCGGAAACAGCAGGGCTACAGCACCGTGTCCCACTTCAACATTGTGC
101508 I A TGGAGTTGTAGTTCACTTTGTATCATCATGTTGACCATTATTTCTTGTGATTCTCTTCT
101508 P A A CGCGCCGAGGAGAGTGGTGATTTGCTGY
101508 P G A ATGACGTGGCAGACGGAGTGGTGATTTGCTGY
101508 T A A ATCTCAGCAAATCACCACTCTGAAGAGAATCACAAGAAATAATGGTCAACATGATACAAAGTGAACTACAACTCCAAA
101508 T G A ATCTCAGCAAATCACCACTCCGAACAGAATCACAAGAAATAATGGTCAACATGATACAAAGTGAACTACAACTCCAAA
101508 IS [AG] CTCTTTGGAGTTGTAGTTCACTTTGTATCATGTTGACCATTATTTCTTGTGATTCTCTTC[AG]GAGTGGTGATTTGCTGCAGATGCTTCAAGGAACCAACCCCAGGGTAACTAGTTGGAGGAGC
101542 I S TTTCCATAATATGATTTTTATGATTTTTCATTCATCATATGCCATACCTTGTGATAAC
101542 P C S ATGACGTGGCAGACGTCCTTACAGTGTGTTCTCY
101542 P A S CGCGCCGAGGTTCCTTACAGTGTGTTCTCAY
101542 T C S TGCATGAGAACACACTGTAAGGACTTATCACAAGGTATGGCATATGATGAATGAAAAATCATAAAAATCATATTATGGAAATG
101542 T A S TGCATGAGAACACACTGTAAGGAATTATCACAAGGTATGGCATATGATGAATGAAAAATCATAAAAATCATATTATGGAAATG
101542 IS [CA] TAATAAGATATTGACCTCACAGGACTATCACGAGAATTGCATGAGAACACACTGTAAGGA[CA]TTATCACAAGGTATGGCATATGATGAATGAAAAATCATAAAAATCATATTATGGAAATGT
101566 I A ACTTTAATATTGTAAGTTCAGAGGCTGACTCTTGGAGGTATTT
101566 P A A CGCGCCGAGGAAATTAAAACTTGCCAATGCCY
101566 P G A ATGACGTGGCAGACGAATTAAAACTTGCCAATGCY
101566 T A A CAAGGGCATTGGCAAGTTTTAATTTAATACCTCCAAGAGTCAGCCTCTGAACTTACAATATTAAAGTTA
101566 T G A CAAGGGCATTGGCAAGTTTTAATTCAATACCTCCAAGAGTCAGCCTCTGAACTTACAATATTAAAGTTA
101566 IS [AG] CTAAAGCCTGAAAAGCTAACTTTAATATTGTAAGTTCAGAGGCTGACTCTTGGAGGTATT[AG]AATTAAAACTTGCCAATGCCCTTGTTCAGAGCTCTTCACATAGGATGATATTCTGCACAC
101592 I A TGTCTACTGTTATAATTACAATTATCACCATTCACTAGGACTGAAAACAGA
101592 P T A CGCGCCGAGGTCTCCTGAGTTCATGCCY
101592 P C A ATGACGTGGCAGACCCTCCTGAGTTCATGCY
101592 T T A ATAAGGCATGAACTCAGGAGACTGTTTTCAGTCCTAGTGAATGGTGATAATTGTAATTATAACAGTAGACAAC
101592 T C A ATAAGGCATGAACTCAGGAGGCTGTTTTCAGTCCTAGTGAATGGTGATAATTGTAATTATAACAGTAGACAAC
101592 IS [TC] AAAGAGATGTTGTCTACTGTTATAATTACAATTATCACCATTCACTAGGACTGAAAACAG[TC]CTCCTGAGTTCATGCCTTATCAACAAATTAGAAGCCTAGGTTTCTGATCCAAAGCATGT
101600 I A CCTTGGGATCCAGGAAGTTGAGGGGCTCT
101600 P G A ATGACGTGGCAGACGTCCCCACCGCCY
101600 P A A CGCGCCGAGGATCCCCACCGCCY
101600 T G A AGAGGGCGGTGGGGACGAGCCCCTCAACTTCCTGGATCCCAAGGTG
101600 T A A AGAGGGCGGTGGGGATGAGCCCCTCAACTTCCTGGATCCCAAGGTG
101600 IS [GA] AGCCCTGTGCTTACCCAGGACTCGTTGGGCCACCTTGGGATCCAGGAAGTTGAGGGGCTC[GA]TCCCCACCGCCCTCTTTCAGCCATGCCCGGCTCCTCTGTGGTGCCAGCTTCCGCTGCTCC
101680 I A CCTCAGACATGTTCGCTACAACCAGAATGTCTCATTTCTATTTACTTATTTTTAGTT
101680 P A A CGCGCCGAGGAGTGAAGCAAGAAGCAGY
101680 P G A ATGACGTGGCAGACGGTGAAGAGGAAGAGGAY
101680 T A A CCTCCTCCTCTTCCTCTTCACTACTAAAAATAAGTAAATAGAAATGAGACATTCTGGTTGTAGCGAACATGTCTGAGGGG
101680 T G A CCTCCTCCTCTTCCTCTTCACCACTAAAAATAAGTAAATAGAAATGAGACATTCTGGTTGTAGCGAACATGTCTGAGGGG
101680 IS [AG] ATCCCCTCAGACATGTTCGCTACAACCAGAATGTCTCATTTCTATTTACTATTTTTAGT[AG]GTGAAGAGGAAGAGGAGGAAGGAAGCAAGAAGATGTTAATCAGTGAAGAGGAAGATACCATTCA
101697 I S CACAGAGGAGCTGAGTGAGGCCGAGACA
101697 P G S ATGACGTGGCAGACCGAAAGCAAGCCCCY
101697 P A S CGCGCCGAGGTGAAAGCAAGCCCCAY
101697 T G S TGTCTGGGGCTTGCTTTCGGTCTCGGGCTCACTCAGCTCCTCTGTGGG
101697 T A S TGTCTGGGGCTTGCTTTCAGTCTCGGGCTCACTCAGCTCCTCTGTGGG
101697 IS [GA] TGGGTAACTGAGGGCTCTCACTTGCTAGCCTTCTTGCCTTCTGTCTGGGGCTTGCTTTC[GA]GTCTCGGCCTCACTCAGCTCCTCTGTGGGGCTCTGGGGTTCAGAGCGAGGAAACGCTGTC
101739 I A CCTGACTGTATTTGGGAGAGGGTTGCTTATTTGATGACTACTT
101739 P G A ATGACGTGGCAGACGTAAGACTCTACTTTTACACATAGAY
101739 P A A CGCGCCGAGGATAAGACTCTACTTTTACACATAGAGY
101739 T G A GCCCCTCTATGTGTAAAAGTAGAGTCTTACAGTAGTCATCAAATAAGCAACCCTCTCCCAAATACAGTCAGGTT
101739 T A A GCCCCTCTATGTGTAAAAGTAGAGTCTTATAGTAGTCATCAAATAAGCAACCCTCTCCCAAATACAGTCAGGTT
101739 IS [GA] CGTCCTACAGGGATTGGAACCTGACTGTATTTGGGAGAGGGTTGCTTATTTGATGACTACT[GA]TAAGACTCTACTTTTACACATAGAGGGGCCAAATATCTGTCTGATTCACTCTTACAGCCC
101799 I A CTCCAAGGTGCTGGACGCACAGGTCT
101799 P G A ATGACGTGGCAGACGCTTTCTGTAGTCCTTGTCY
101799 P C A CGCGCCGAGGCCTTTCTGTAGTCCTTGTCY
101799 T G A ACATGACAAGGACTACAGAAAGCGACCTGTGCGTCCAGCACCTTGGAGCA
101799 T C A ACATGACAAGGACTACAGAAAGCGACCTGTGCGTCCAGCACCTTGGAGCA
101799 IS [GC] CGGGAGACAGAGAAAGGGCAGGGTCTCTCCGGATGCTCCAAGGTGCTGGACGCACAGGTC[GC]CTTTCTGTAGTCCTTGTCATGTAAGATCTTTTCATTTAGGCTAAGCAAATCCAGATGTTC
101811 I A GCGGAAAAAAGCAATGAATGAAGGCAGAGCATGTTTCAT
101811 P G A ATGACGTGGCAGACGCTCCATGTCCTTGGY
101811 P A A CGCGCCGAGGACTCCATGTCCTTGGGY
101811 T G A ACTTCCCAAGGACATGGAGCTGAAACATGCTCTGCCTTCATTCATTGCTTTTTTCCGCCT
101811 T A A ACTTCCCAAGGACATGGAGTTGAAACATGCTCTGCCTTCATTCATTGCTTTTTTCCGCCT





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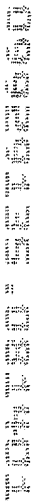
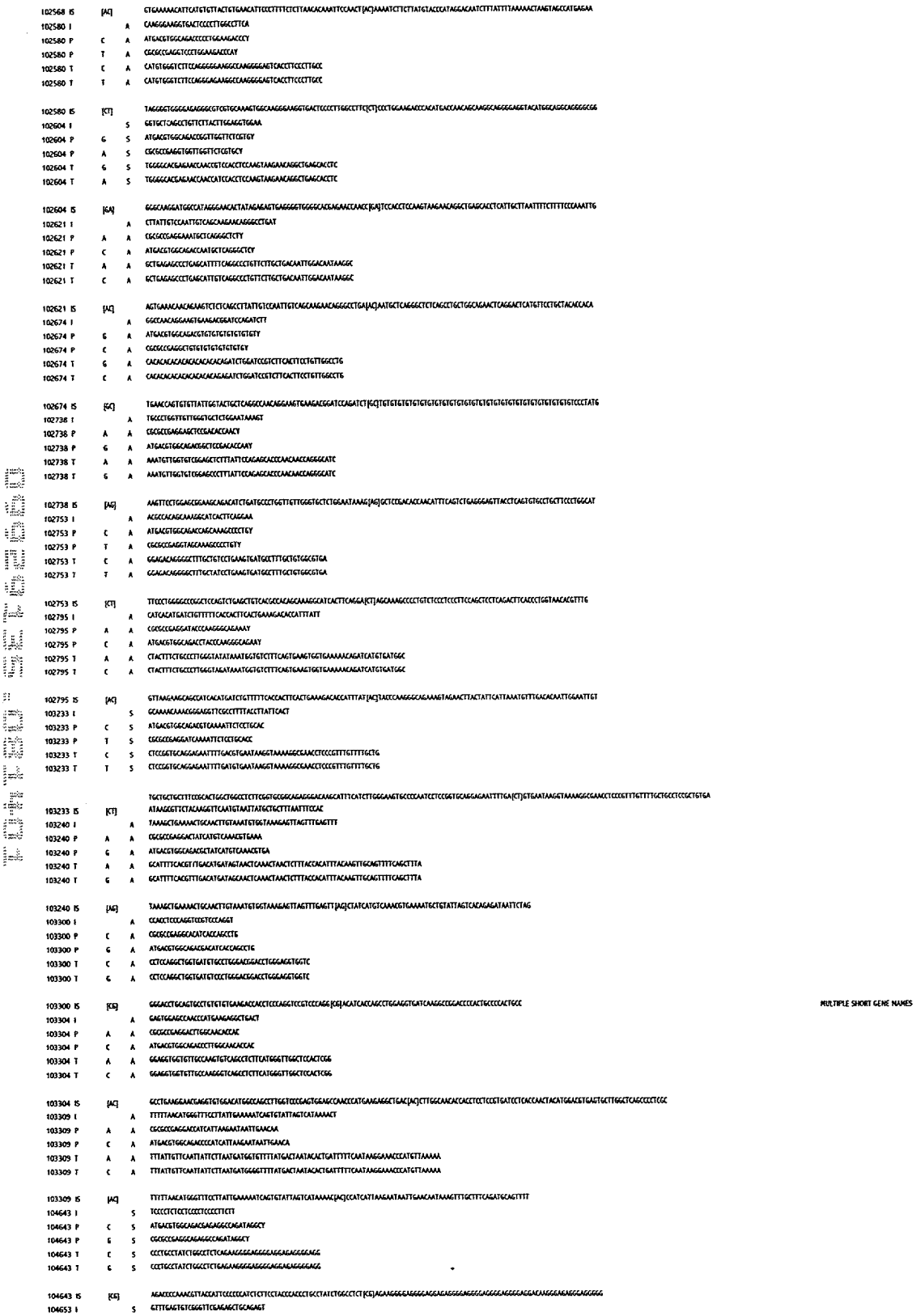
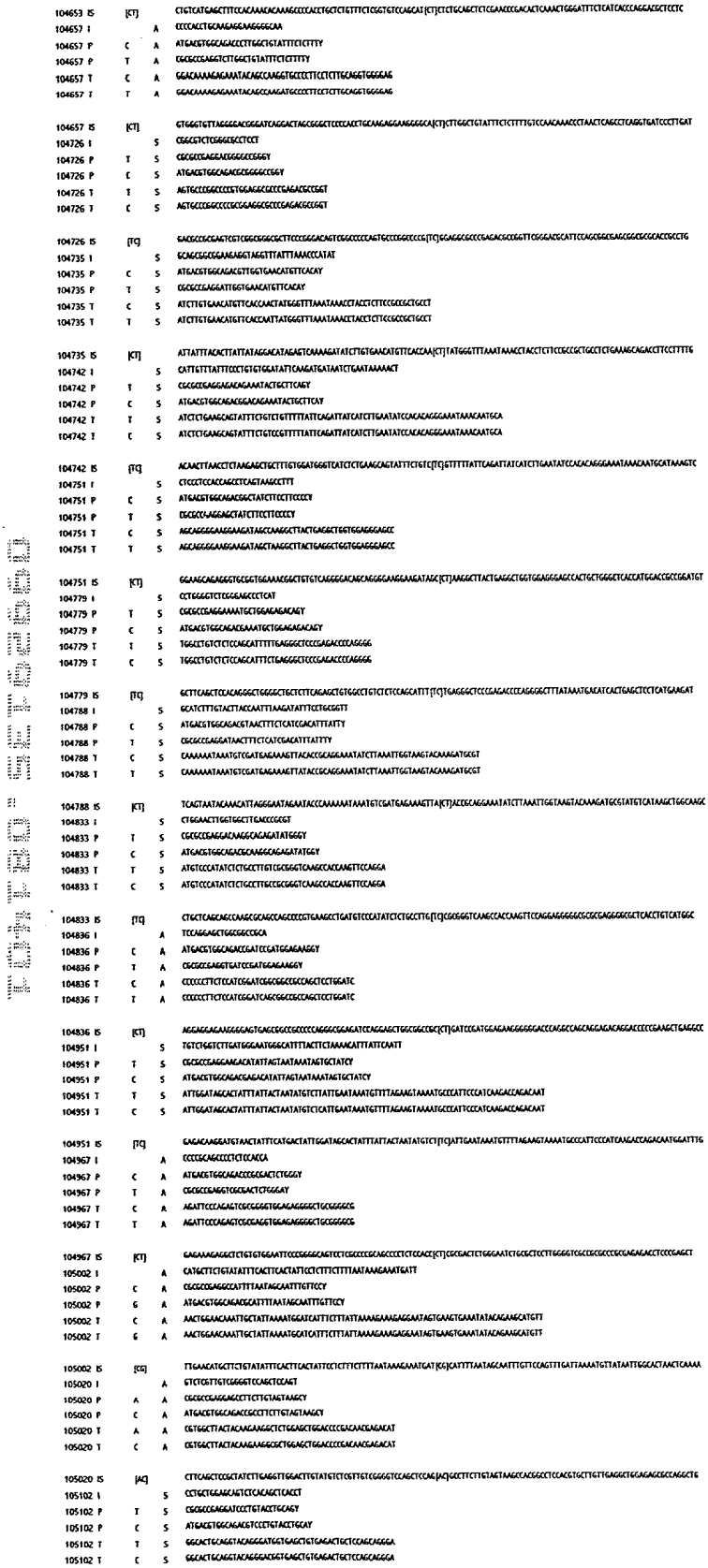


FIGURE 129G




104653 IS [CT] CTGTCATGAGCTTTCCACAAACACAAAGCCCCACCTGCTCTGTTTCTCGGTGTCCAGCAT[CT]CTCTGCAGCTCTCGAACCCGACACTCAAACTGGGATTTCTCATCACCCAGGACGCTCCTC
104657 I A CCCCACCTGCAAGAGGAAGGGGCAA
104657 P C A ATGACGTGGCAGACCCTTGGCTGTATTTCTCTTTY
104657 P T A CGCGCCGAGGTCTTGGCTGTATTTCTCTTTTY
104657 T C A GGACAAAAGAGAAATACAGCCAAGGTGCCCCTTCCTCTTGCAGGTGGGGAG
104657 T T A GGACAAAAGAGAAATACAGCCAAGATGCCCCTTCCTCTTGCAGGTGGGGAG
104657 IS [CT] GTGGGTGTTAGGGGACGGGATCAGGACTAGCGGCTCCCCACCTGCAAGAGGAAGGGGCA[CT]CTTGGCTGTATTTCTCTTTTGTCCAACAAACCCTAACTCAGCCTCAGGTGATCCCTTGAT
104726 I S CGGCGTCTCGGGCGCCTCCT
104726 P T S CGCGCCCAGCAACGGGCCCGGGY
104726 P C S ATGACGTGGCAGACGCGGGCCGGY
104726 T T S AGTGCCCGGCCCCGTGGAGGCGCCCGAGACGCCGGT
104726 T C S AGTGCCCGGCCCCGCGAGGGCGCCGAGACGCCGGT
104726 IS [TC] GACGCCGCGAGTCGTCGGCGGGCGCTTCCCGGGACAGTCGGCCCCCAGTGCCCGGCCCCG[TC]GCAGGCGCCCAGACGCCGGTTCGGGACGCATTCCAGCGGCGAGCGGCGCGACCGCCTG
104735 I S GCAGCGGCGGAAGAGGTAGGTTTATTTAAACCCATAT
104735 P C S ATGACGTGGCAGACGTTGGTGAACATGTTCACAY
104735 P T S CGCGCCGAGGATTGGTGAACATGTTCACAY
104735 T C S ATCTTGTGAACATGTTCACCAACTATGGGTTTAAATAAACCTACCTCTTCCGCCGCTGCCT
104735 T T S ATCTTGTGAACATGTTCACCAATTATGGGTTTAAATAAACCTACCTCTTCCGCCGCTGCCT
104735 IS [CT] ATTATTTACACTTATTATAGGACATAGAGTCAAAAGATATCTTGTGAACATGTTCACCAA[CT]TATGGGTTTAAATAAACCTACCTCTTCCGCCGCTGCCTCTGAAAGCAGACCTTCCTTTTG
104742 I S CATTGTTTATTTCCCTGTGTGGATATTCAAGATGATAATCTGAATAAAAACT
104742 P T S CGCGCCGAGGAGACAGAAATACTGCTTCAGY
104742 P C S ATGACGTGGCAGACGGCATACTTCCTCCCCY
104742 T T S CGCGCCGAGGAGCTATCTTCCTTCCCCY
104742 T C S AGCAGGGCAAGGAAGATAGCCAAGGCTTACTGAGGCTGGTGGAGGGAGCC
104742 T T S AGCAGGGCAAGGAAGATAGCTAAGGCTTACTGAGGCTGGTGGAGGGAGCC
104742 IS [TC] ACAACTTAACCTCTAAGAGCTGCTTTGTGGATGGGTCATCTCTGAAGCAGTATTTCTGTC[TC]GTTTTTATTCAGATTATCATCTTGAATATCCACACAGGGAAATAAACAATGCATAAAGTC
104751 I S CTCCCTCCACCAGCCTCAGTAAGCCTTT
104751 P C S ATGACGTGGCAGACGGCTATCTTCCTCCCCY
104751 P T S CGCGCCGAGGAGCATCTTCCTTCCCCY
104751 T C S AGCAGGGCAAGGAAGATAGCTAAGGCTTACTGAGGCTGGTGGAGGGAGCC
104751 T T S AGCAGGGCAAGGAAGATAGCTAAGGCTTACTGAGGCTGGTGGAGGGAGCC
104751 IS [CT] GGAAGCAGCAGGGTGCGGTGGAAAGCGCTGTGTCAGGGGCACAGCAGGGCAAGGAAGATAGC[CT]AAGGCTTACTGAGGCTGGTGGAGGGAGCCACTGCTGCGGCTCACCATGGACCGCCGGATGT
104779 I S CCTGGGGTCTCCGCAGCCCTCAT
104779 P T S CGCGCCGAGGAAAATGCTGGAGAGACAGY
104779 P C S ATGACGTGGCAGACGAAAATGCTGGAGAGACAGY
104779 T T S TGGCCTGTCTCTCCAGCATTTTTGAGGGCTCCCGAGACCCCAGGGG
104779 T C S TGGCCTGTCTCTCCAGCATTTCTGAGGGCTCCCGAGACCCCAGGGG
104779 IS [TC] GCTTCAGCTCCACAGGGCTGGGGCTGCTCTTCAGAGCTGTGGCCTGTCTCTCCAGCATTT[TC]TGAGGGCTCCCGAGACCCCAGGGGCTTTATAAATGAACATCACTGAGCTCCTCATGAAGAT
104788 I S GCATCTTTGTACTTACCAATTTAAGATATTTCCTGCGGTT
104788 P C S ATGACGTGGCAGACGTAACTTTCTCATCGACATTTATTY
104788 P T S CGCGCCGAGGATAACTTTCTCATCGACATTTATTTY
104788 T C S CAAAAAATAAATGTCGATGAGAAAGTTACACCGCAGGAAATATCTTAAATTGGTAAGTACAAAGATGCGT
104788 T T S CAAAAAATAAATGTCGATGAGAAAGTTATACCGCAGGAAATATCTTAAATTGGTAAGTACAAAGATGCGT
104788 IS [CT] TCAGTAATACAAACATTAGGGAATAGAATACCCAAAAAATAAATGTCGATGAGAAAGTTA[CT]ACCGCAGGAAATATCTTAAATTGGTAAGTACAAAGATGCGTATGTCATAAGCTGGCAAGC
104833 I S CTGGAACTTGGTGGCTTGACCCGCGT
104833 P T S CGCGCCGAGGACAGGCAGAGATATGGGY
104833 P C S ATGACGTGGCAGACGCAAGCAGAGATATGGY
104833 T T S ATGTCCCATATCTCTGCCTTGTCGCGGGTCAAGCCACCAAGTTCCAGGA
104833 T C S ATGTCCCATATCTCTGCCTTGCCGCGGGTCAAGCCACCAAGTTCCAGGA
104833 IS [TC] CTGCTCAGCAGCCAAGCGCAGCCAGCCCCGTGAAGCCTGATGTCCCATATCTCTGCCTTG[TC]CGCGGGTCAAGCCACCAAGTTCCAGGAGGGGGGCGCGCGAGGGGCGCTCACCTGTCATGGC
104836 I A TCCAGGAGCTGGCGGCCGCA
104836 P C A ATGACGTGGCAGACCGATCCGATGGAGAAGGY
104836 P T A CGCGCCGAGGTGATCCGATGGAGAAGGY
104836 T C A CCCCCCTTCTCCATCGGATCGGCGGCCGCCAGCTCCTGGATC
104836 T T A CCCCCCTTCTCCATCGGATCAGCGGCCGCCAGCTCCTGGATC
104836 IS [CT] AGGAGCAGAAGGGAGTGAGCGGCGCCCCCAGGGCGCAGCATCCAGGAGCTGGCGGCCGC[CT]GATCCCATGGAGAAGGGGGGACCCAGGCCAGCAGGAGACAGGACCCCCGAAGCTGAGGCC
104951 I S TGTCTGGTCTTGATGGGAATGGGCATTTTACTTCTAAAACATTTATTCAATT
104951 P T S CGCGCCGAGGAACACATATTAGTAATAAATAGTGCTATCY
104951 P C S ATGACGTGGCAGACGAGACATATTAGTAATAAATAGTGCTATCY
104951 T T S ATTGGATAGCACTATTTATTACTAATATGTCTTATTGAATAAATGTTTTAGAAGTAAAATGCCCATTCCCATCAAGACCAGACAAT
104951 T C S ATTGGATAGCACTATTTATTACTAATATGTCTCATTGAATAAATGTTTTAGAAGTAAAATGCCCATTCCCATCAAGACCAGACAAT
104951 IS [TC] GAGACAAGGATGTAACTATTCATGACTATTGGATAGCACTATTTATTACTAATATGTCT[TC]ATTGAATAAATGTTTTAGAAGTAAAATGCCCATTCCCATCAAGACCAGACAATGGATTTG
104967 I A CCCCGCAGCCCCTCTCCACCA
104967 P C A ATGACGTGGCAGACCCGCGACTCTGGGY
104967 P T A CGCGCCGAGGTGGCGACTCTGGGAY
104967 T C A AGATTCCCAGAGTCGCGAGGTGGAGAGGGGCTGCGGGGCG
104967 T T A AGATTCCCAGAGTCGCGAGGTGGAGAGGGGCTGCGGGGCG
104967 IS [CT] GAGAAAGAGGCTCTGTGTGGAATTCCCGGGGCAGTCCTCGCCCCGCAGCCCCTCTCCACC[CT]CGCGACTCTGGGAATCTGCGCTCCTTGGGGTCGCCGCGCCCCGCGAGAGACCTCCCGAGCT
105002 I A CATGCTTCTGTATATTTCACTTCACTATTCCTCTTTCTTTTAATAAAGAAATGATT
105002 P C A CGCGCCGAGGCCATTTTAATAGCAATTTGTTCCY
105002 P G A ATGACGTGGCAGACGCATTTTAATAGCAATTTGTTCCY
105002 T C A AACTGGAACAAATTGCTATTAAAATGGATCATTTCTTTATTAAAAGAAAGAGGAATAGTGAAGTGAAATATACAGAAGCATGTT
105002 T G A AACTGGAACAAATTGCTATTAAAATGGATCATTTCTTTATTAAAAGAAAGAGGAATAGTGAAGTGAAATATACAGAAGCATGTT
105002 IS [CG] TTGAACATGCTTCTGTATATTTCACTTCACTATTCCTCTTTCTTTTAATAAAGAAATGAT[CG]CATTTTAATAGCAATTTGTTCCAGTTTGATTAAAATGTTATAATTGGCACTAACTCAAAA
105020 I A GTCTCGTTGTCGGGGTCCAGCTCCAGT
105020 P A A CGCGCCGAGGAGCCTTCTTGTAGTAAGCY
105020 P C A ATGACGTGGCAGACGCCTTCTTGTAGTAAGCY
105020 T A A CGTGGCTTACTACAGAAGGCTCTGGAGCTGGACCCCGACAACGAGACAT
105020 T C A CGTGGCTTACTACAGAAGGCGCTGGAGCTGGACCCCGACAACGAGACAT
105020 IS [AC] CTTCAGCTCCGCTATCTTGAGGTTGGACTTGTATGTCTCGTTGTCGGGGTCCAGCTCCAG[AC]GCCTTCTTGTAGTAAGCACGGCCTCCACGTGCTTGTTGAGGCTGCAGACGCCAGGCTG
105102 I S CCTGCTGCAGCAGTCTCACAGCTCACCT
105102 P T S CGCGCCGAGGATCCCTGTACCTGCAGY
105102 P C S ATGACGTGGCAGACGTCCCTGTACCTGCAY
105102 T T S GGCACTGCAGGTACAGGGACGGTGAGCTGTGAGACTGCTCCAGCAGGGA
105102 T C S GGCACTGCAGGTACAGGGACGGTGAGCTGTGAGACTGCTCCAGCAGGGA



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105102 IS    [TC]
105152 I           A   CAGGGAGGGCAAGCTCCTTTACCCATCTTTGT
105152 P     A     A   CGCGCCGAGGAAGGCTGTTGGGGCY
105152 P     G     A   ATGACGTGGCAGACGAGGCTCTTGGGGCY
105152 T     A     A   CCAGGCCCCAACAGCCTTCAAAGATGGGTAAAGGAGCTTGCCCTCCCTGGG
105152 T     G     A   CCAGGCCCCAACAGCCTCCAAAGATGGGTAAAGGAGCTTGCCCTCCCTGGG

105152 IS    [AG]
105528 I           A   GCTGGTCTCCCCTAAAGCCCTCTCTTGTCCT
105528 P     G     A   ATGAAGTGGCAGACGTTACAGGACAGCAATGCY
105528 P     A     A   CGCGCCGAGGATTACAGGACAGCAATGCY
105528 T     G     A   GGGAGCATTGCTGTCCTGTAATGGACAAGAGAGGCTTTAGGGGAGACCAGCCT
105528 T     A     A   GGGAGCATTGCTGTCCTGTAATGGACAAGAGAGGCTTTAGGGGAGACCAGCCT

105528 IS    [GA]
105534 I           A   GGGCATCCCCCAGCCCCACAGC
105534 P     G     A   ATGACGTGGCAGACGCTTTATGATAATGTGCCTGY
105534 P     T     A   CGCGCCGAGGTCTTTATGATAATGTGCCTGCY
105534 T     G     A   AGAAGCAGGCACATTATCATAAAGCCTGTGGGGCTGGGGGATGCCCTG
105534 T     T     A   AGAAGCAGGCACATTATCATAAAGACTGTGGGGCTGGGGGATGCCCTG

105534 IS    [GT]
105545 I           S   GGAGTGTGCCCCAGCAATAGCGAGCT
105545 P     T     S   CGCGCCGAGGAGCAGATCCAGCTGGY
105545 P     C     S   ATGACGTGGCAGACGGCAGATCCAGCTGGY
105545 T     T     S   CTCACCAGCTGGATCTGCTGCTGCTATTGCTGGGGCACACTCCAC
105545 T     C     S   CTCACCAGCTGGATCTGCTGCTGCTATTGCTGGGGCACACTCCAC

105545 IS    [TC]
105572 I           A   TGTGAGTTTGTGGATTGGGGATGACTCCCTGAGT
105572 P     A     A   CGCGCCGAGGATCCCTTCCTAGTGGTGY
105572 P     G     A   ATGACGTGGCAGACGTCCCTTCCTAGTGGTGY
105572 T     A     A   CCCCCACCACTAGGAAGGGATCTCAGGGAGTCATCCCCAATCCACAAACTCACATG
105572 T     G     A   CCCCCACCACTAGGAAGGGACCTCAGGGAGTCATCCCCAATCCACAAACTCACATG

105572 IS    [AG]
105577 I           S   GGCCGGGGACTGGCTGGGCT
105577 P     T     S   CGCGCCGAGGACTTTCTGGACTATCTCACCY
105577 P     C     S   ATGACGTGGCAGACGCTTTCTGGACTATCTCACY
105577 T     T     S   GCCGGGTGAGATAGTCCAGAAAGTGCCCAGCCAGTCCCCGGCCAA
105577 T     C     S   GCCGGGTGAGATAGTCCAGAAAGGCCCAGCCAGTCCCCGGCCAA

105577 IS    [TC]
105590 I           S   GCGGGGATGATGCTCAGGCCATCGT
105590 P     C     S   ATGACGTGGCAGACGGAAATCCAGAAACAGGCY
105590 P     T     S   CGCGCCGAGCAGAAATCCAGAAACAGGCY
105590 T     C     S   CGTGGCCTGTTTCTGGATTTCCCGATGGCCTGAGCATCATCCGCGCAG
105590 T     T     S   CGTCGCCTGTTTCTGGATTTCTCGATGGCCTGAGCATCATCCGCGCAG

105590 IS    [CT]
105710 I           S   TCTAGAAGTCCCTTCCTTGAAGTATTTAAGATGGTGGAAGGGAT
105710 P     G     S   ATGACGTGGCAGACCCTGTTTTTATTTGTTCTCCAAY
105710 P     T     S   CGCGCCGAGGACTGTTTTTATTTGTTCTCCAAAY
105710 T     G     S   CGTTTT*GGAGAACAAATAAAAACAGGTCCCTTCCAACCATCTAAATACTTCAAGGAAGGGACTTCTAGAGA
105710 T     T     S   CGTTTTTGGAGAACAAATAAAAACAGTTCCCTTCCAACCATCTAAATACTTCAAGGAAGGGACTTCTAGAGA

105710 IS    [GT]
105725 I           A   GAAAACATGCAGCTGAGGAGAGAGCCAGCTTC
105725 P     T     A   CGCGCCGAGGTGCAAGATGGTGGTGAY
105725 P     G     A   ATGACGTGGCAGACGGCAAGATGGTGGTGY
105725 T     T     A   ACATTCACCACCATCTTGCAAAGCTGCTCTCTCCTCAGCTGCATGTTTTCCT
105725 T     G     A   ACATTCACCACCATCTTGCCAAGCTCGCTCTCTCCTCAGCTGCATGTTTTCCT

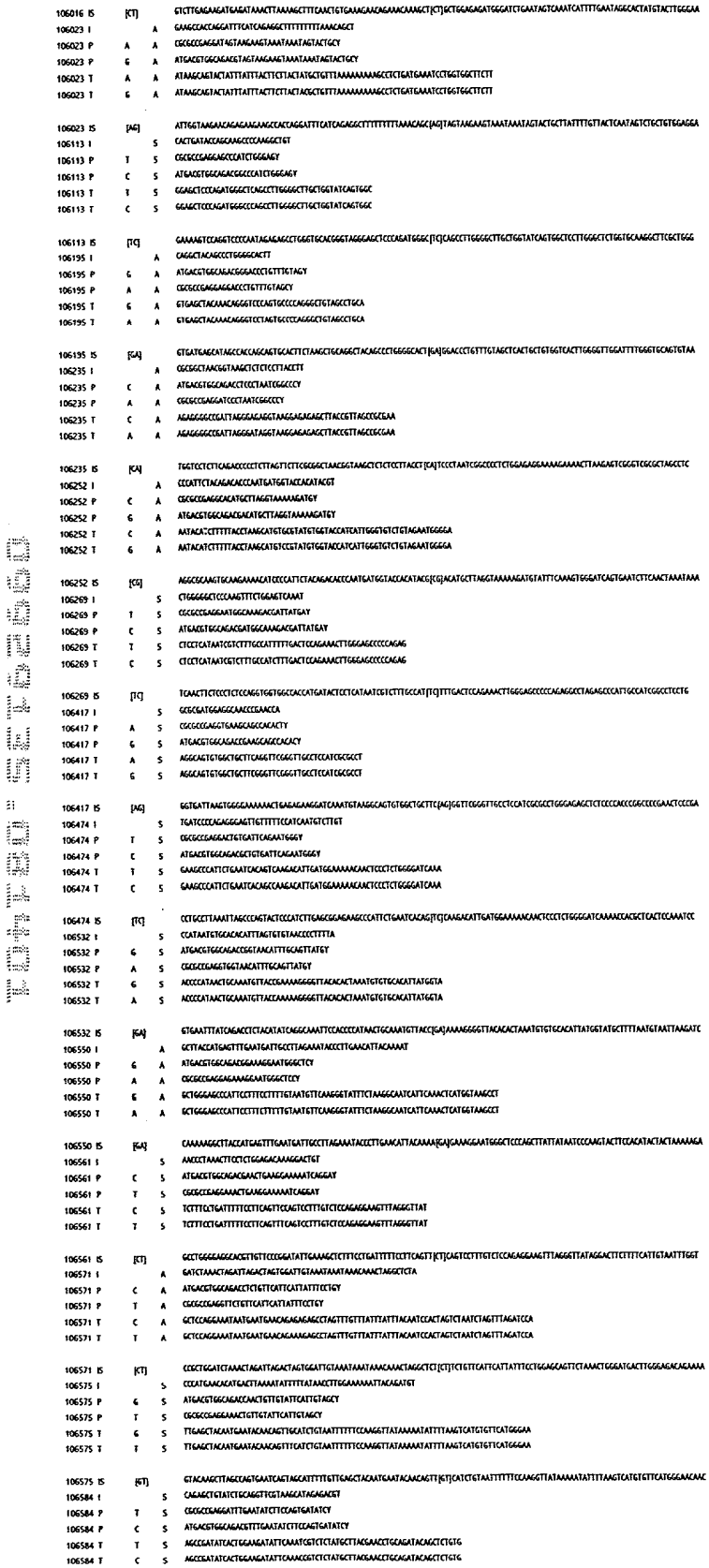
105725 IS    [TG]
105826 I           A   CCTGTATGCAGAGTTAATGCCTTCCCGCTGTCA
105826 P     C     A   ATGACGTGGCAGACCGTTCCCATATCAGGCY
105826 P     T     A   CGCGCCGAGGTGTTCCCATATCAGGCTY
105826 T     C     A   ACACAGCCTGATATGGGAACGGACAGCGGGAAGGCATTAACTCTGCATACAGGTG
105826 T     T     A   ACACAGCCTGATATGGGAACAGACAGCGGGAAGGCATTAACTCTGCATACAGGTG

105826 IS    [CT]
105923 I           A   GGGGAGGGAGTCTGCCCAGACGAAC
105923 P     G     A   ATGAGTGGCAGACGGAAACTCACTATTAAAACGAAAY
105923 P     T     A   CGCGCCGAGGTGAAACTCACTATTAAAACGAAAAY
105923 T     G     A   GCACTTTTCGTTTTAATAGTGAGTTTCCTTCGTCTGGGCAGACTCCCTCCCCTC
105923 T     T     A   GCACTTTTCGTTTTAATAGTGAGTTTCATTCGTCTGGGCAGACTCCCTCCCCTC

105923 IS    [GT]
105959 I           S   GCTTTGCCAGGGTAACTGTCCAAGCTGTTCTT
105959 P     C     S   ATGACGTGGCAGACGTCAACCAGAGTAGTTGGY
105959 P     T     S   CGCGCCGAGGATCAACCAGAGTAGTTGGGY
105959 T     C     S   TACCCCCAACTACTCTGGTTGACAGAACAGCTTGGACAGTTACCCTGGCAAAGCAC
105959 T     T     S   TACCCCCAACTACTCTGGTTGATAGAACAGCTTGGACAGTTACCCTGGCAAAGCAC

105959 IS    [CT]
105963 I           A   AGGAGCTCAAGAAGCAGCTTGGCCCTGT
105963 P     G     A   ATGACGTGGCAGACGTGGCCTGGAACCCY
105963 P     A     A   CGCGCCGAGGATGGCCTGGAACCCY
105963 T     G     A   CCACGGGTTCCAGGCCACCAGGGCCAAGCTGCTTCTTGAGCTCCTCC
105963 T     A     A   CCACGGGTTCCAGGCCATCAGGGCCAAGCTGCTTCTTGAGCTCCTCC

105963 IS    [GA]
106016 I           A   ACTTAAAAGCTTTCAACTGTGAAAGAACAGAAACAAGCTA
106016 P     C     A   ATGACGTGGCAGACCGCTGCAGAGATGGGY
106016 P     T     A   CGCGCCGAGGTGCTGCAGAGATGGGY
106016 T     C     A   AGATCCCATCTCTCCAGCAAGCTTTGTTTCTGTTCTTTCACAGTTGAAAGCTTTTAAGTTT
106016 T     T     A   AGATCCCATCTCTCCAGCAAGCTTTGTTTCTGTTCTTTCACAGTTGAAAGCTTTTAAGTTT
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106016 IS [CT] GTCTTGAGAAGATGAGATAAACTTAAAGCTTTCAACTGTGAAAGAACAGAAACAAAGCT[CT]GCTGGAGAGATGGGATCTGAATAGTCAAATCATTTTGAATAGGCACTATGTACTTGGGAA
106023 I A GAAGCCACCAGGATTTCATCAGAGGCTTTTTTTTTAAACAGCT
106023 P A A CGCGCCGAGGATAGTAAGAAGTAAATAAATAGTACTGCY
106023 P G A ATGACGTGGCAGACGTAGTAAGAAGTAAATAAATAGTACTGCY
106023 T A A ATAAGCAGTACTATTTATTTACTTCTACTATGCTGTTAAAAAAAAAGCCTCTGATGAAATCCTGGTGGCTTCTT
106023 T G A ATAAGCAGTACTATTTATTTACTTCTACTACGCTGTTTAAAAAAAAAGCCTCTGATGAAATCCTGGTGGCTTCTT

106023 IS [AG] ATTGGTAAGAACAGAGAAGAAGCCACTAGGATTTCATCAGAGGCTTTTTTTTTAAACAGC[AG]TAGTAAGAAGTAAATAAATAGTACTGCTTATTTTGTTACTCAATAGTCTGCTGTGGAGGA
106113 I S CACTGATACCAGCAAGCCCCAAGGCTGT
106113 P T S CGCGCCGAGGAGCCCATCTGGGAGY
106113 P C S ATGACGTGGCAGACGGCCCCATCTGGGAGY
106113 T T S GGAGCTCCCAGATGGGCCTCAGCCTTGGGGCTTGCTGGTATCAGTGGC
106113 T C S GGAGCTCCCAGATGGGCCCAGCCTTGGGGCTTGCTGGTATCAGTGGC

106113 IS [TC] GAAAAGTCCAGGTCCCCAATAGAGAGCCTGGGTGCACGGGTAGGGAGCTCCCAGATGGGC[TC]CAGCCTTGGGGCTTGCTGGTATCAGTGGCTCCTTGGGCTCTGGTGCAAGGCTTCGCTGGG
106195 I A CAGGCTACAGCCCTGGGGCACTT
106195 P G A ATGACGTGGCAGACGGGACCCTGTTTGTAGY
106195 P A A CGCGCCGAGGAGGACCCTGTTTGTAGCY
106195 T G A GTGAGCTACAAACAGGGTCCCAGTGCCCCAGGGCTGTAGCCTGCA
106195 T A A GTGAGCTACAAACAGGGTCCTAGTGCCCCAGGGCTGTAGCCTGCA

106195 IS [GA] GTGATGAGCATAGCCACCAGCAGTGCACTTCTAAGCTGCAGGCTACAGCCCTGGGGCACT[GA]GGACCCTGTTTGTAGCTCACTGCTGTGGTCACTTGGGGTTGGATTTTGGGTGCAGTGTAA
106235 I A CGCGGCTAACGGTAAGCTCTCTCCTTACCTT
106235 P C A ATGACGTGGCAGACCTCCCTAATCGGCCCY
106235 P A A CGCGCCGAGGATCCCTAATCGGCCCY
106235 T C A AGAGGAGCCCATTAGGGAGAGGTAAGGAGAGAGAGCTTACCGTTAGCCGCGAA
106235 T A A AGAGGGGCCGATTAGGGATAGGTAAGGAGAGAGAGCTTACCGTTAGCCGCGAA

106235 IS [CA] TGGTCCTCTTGAGACCCCCTCTTAGTTCTTCGGGGCTAACGGTAAGCTCTCTCCTTACCT[CA]TCCCTAATCGGCCCCTCTGGAGAGGAAAAGAAAACTTAAGAGTCGGGTCGCGCTAGCCTC
106252 I A CCCATTCTACAGACACCCAATGATGGTACCAGATACGT
106252 P C A CGCGCCGAGGCACATGCTTAGGTAAAAAGATGY
106252 P G A ATGACGTGGCAGACGACATGCTTAGGTAAAAAGATGY
106252 T C A AATACATCTTTTTACCTAAGCATGTCCGTATGTGGTACCATCATTGGGTGTCTGTAGAATGGGGA
106252 T G A AATACATCTTTTTACCTAAGCATGTCCGTATGTGGTACCATCATTGGGTGTCTGTAGAATGGGGA

106252 IS [CG] AGGCGCAAGTGCAAGAAAACATCCCCATTCTACAGACACCCAATGATGGTACCACATACG[CG]ACATGCTTAGGTAAAAAGATGTATTTCAAAGTGGGATCAGTGAATCTTCAACTAAATAAA
106269 I S CTGGGGGCTCCCAAGTTTCTGGAGTCAAAT
106269 P T S CGCGCCGAGGAATGGCAAAGACGATTATGAY
106269 P C S ATGACGTGGCAGACGATGGCAAAGACGATTATGAY
106269 T T S CTCCTCATAATCGTCTTTGCCATTTTTGACTCCAGAAACTTGGGAGCCCCCAGAG
106269 T C S CTCCTCATAATCGTCTTTGCCATCTTTGACTCCAGAAACTTGGGAGCCCCCAGAG

106269 IS [TC] TCAACTTCTCCCCTCTCCAGGTGGTGGCCACCATGATACTCCTCATAATCGTCTTTGCCATT[TC]TTTGACTCCAGAAACTTGGGAGCCCCCAGAGGCCTAGAGCCCATTGCCATCGGCCTCCTG
106417 I S GCGCGATGGAGGCAACCCGAACCA
106417 P A S CGCGCCGAGGTGAAGCAGCCACACTY
106417 P G S ATGACGTGGCAGACCGAAGCAGCCACACY
106417 T A S AGGCAGTGTGGCTGCTTCAGGTTCGGGTTGCCTCCATCGCGCCT
106417 T G S AGGCAGTGTGGCTGCTTCGGGTTCGGGTTGCCTCCATCGCGCCT

106417 IS [AG] GGTGATTAAGTGGGGAAAAAACTGAGAGAAGGATCAAATGTAAGGCAGTGTGGCTGCTTC[AG]GGTTCGGGTTGCCTCCATCGCGCCTGGGAGAGCTCTCCCCAACCCGGCCCCGAACTCCCCA
106474 I S TGATCCCCAGAGGGAGTTGTTTTTCCATCAATGTCTTGT
106474 P T S CGCGCCGAGGAACTGTGATTCAGAATGGGY
106474 P C S ATGACGTGGCAGACGCTGTGATTCAGAATGGGY
106474 T T S GAAGCCCATTCTGAATCACAGTCAAGACATTGATGGAAAAACAACTCCCTCTGGGGATCAAA
106474 T C S GAAGCCCATTCTGAATCACAGCCAAGACATTGATGGAAAAACAACTCCCTCTGGGGATCAAA

106474 IS [TC] CCTGCCTTAAATTAGCCCAGTACTCCCATCTTGAGCGGAGAAGCCCATTCTGAATCACAG[TC]CAAGACATTGATGGAAAAACAACTCCCTCTGGGGATCAAAACCACGCTCACTCCAAATCC
106532 I S CCATAATGTGCACACATTTAGTGTGTAACCCCTTTTA
106532 P G S ATGACGTGGCAGACCGGTAACATTTGCAGTTATGY
106532 P A S CGCGCCGAGGTGGTAACATTTGCAGTTATGY
106532 T G S ACCCCATAACTGCAAATGTTACCGAAAAGGGGTTACACACTAAATGTGTGCACATTATGGTA
106532 T A S ACCCCATAACTGCAAATGTTACCAAAAAGGGGTTACACACTAAATGTGTGCACATTATGGTA

106532 IS [GA] GTGAATTTATCAGACCTCTACATATCAGGCAAATTCCACCCCATAACTGCAAATGTTACC[GA]AAAAGGGGTTACACACTAAATGTGTGCACATTATGGTATGCTTTTAATGTAATTAAGATC
106550 I A GCTTACCATGAGTTTGAATGATTGCCTTAGAAATACCCTTGAACATTACAAAAT
106550 P G A ATGACGTGGCAGACGGAAAGGAATGGGCTCY
106550 P A A CGCGCCGAGGAGAAAGGAATGGGCTCCY
106550 T G A GCTGGGAGCCCATTCCTTTCCTTTTGTAATGTTCAAGGGTATTTCTAAGGCAATCATTCAAACTCATGGTAAGCCT
106550 T A A GCTGGGAGCCCATTCCTTTCTTTTTGTAATGTTCAAGGGTATTTCTAAGGCAATCATTCAAACTCATGGTAAGCCT

106550 IS [GA] CAAAAGGCTTACCATGAGTTTGAATGATTGCCTTAGAAATACCCTTGAACATTACAAAA[GA]GAAAGGAATGGGCTCCCAGCTTATTATAATCCCAAGTACTTCCACATACTACTAAAAAGA
106561 I S AACCCTAAACTTCCTCTGGAGACAAAGGACTGT
106561 P C S ATGACGTGGCAGACGAACTGAAGGAAAAATCAGGAY
106561 P T S CGCGCCGAGGAAACTGAAGGAAAAATCAGGAY
106561 T C S TCTTTCGTGATTTTTCCTTCAGTTCAGTCCTTTGTCTCCAGAGGAAGTTTAGGGTTAT
106561 T T S TCTTTCGTGATTTTTCCTTCAGTTCAGTCCTTTGTCTCCAGAGGAAGTTTAGGGTTAT

106561 IS [CT] GCCTGGGGAGGCACGTTGTTCCCGGATATTGAAAGCTCTTTCCTGATTTTTCCTTCAGT[CT]CAGTCCTTTGTCTCCAGAGGAAGTTTAGGGTTATAGGACTTCTTTTCATTGTAATTTGGT
106571 I A GATCTAAACTAGATTAGACTAGTGGATTGTAAATAAATAAACAAACTAGGCTCTA
106571 P C A ATGACGTGGCAGACCTCTGTTCATTCATTATTTCCTGY
106571 P T A CGCGCCGAGGTTCTGTTCATTCATTATTTCCTGY
106571 T C A GCTCCAGGAAATAATGAATGAACAGAGAGAGCCTAGTTTGTTATTTATTTACAATCCACTAGTCTAATCTAGTTTAGATCCA
106571 T T A GCTCCAGGAAATAATGAATGAACAGAAAGAGCCTAGTTTGTTATTTATTTACAATCCACTAGTCTAATCTAGTTTAGATCCA

106571 IS [CT] CCGCTGGATCTAAACTAGATTAGACTAGTGGATTGTAAATAAATAAACAAACTAGGCTCT[CT]TCTGTTCATTCATTATTTCCTGGAGCAGTTCTAAACTGGGATGACTTGGGAGACAGAAAA
106575 I S CCCATGAACACATGACTTAAAATATTTTATAACCTTGGAAAAAATTACAGATGT
106575 P G S ATGACGTGGCAGACCAACTGTTGTATTCATTGTAGCY
106575 P T S CGCGCCGAGGAAACTGTTGTATTCATTGTAGCY
106575 T G S TTGAGCTACAATGAATACAACAGTTGCATCTGTAATTTTTTCCAAGGTTATAAAAATATTTTAAGTCATGTGTTCATGGGAA
106575 T T S TTGAGCTACAATGAATACAACAGTTTCATCTGTAATTTTTTCCAAGGTTATAAAAATATTTTAAGTCATGTGTTCATGGGAA

106575 IS [GT] GTACAAGCTTAGCCAGTGAATCAGTAGCATTTTTGTTGAGCTACAATGAATACAACAGTT[GT]CATCTGTAATTTTTTCCAAGGTTATAAAAATATTTTAAGTCATGTGTTCATGGGAACAAC
106584 I S CAGAGCTGTATCTGCAGGTTGTTAAGCATAGAGAGCT
106584 P T S CGCGCCGAGGATTTGAATATCTTCCAGTGATATCY
106584 P C S ATGACGTGGCAGACGTTTGAATATCTTCCAGTGATATCY
106584 T T S AGCCGATATCACTGGAAGATATTCAAATCGTCTCTATGCTTACGAACCTGCAGATACAGCTCTGTG
106584 T C S AGCCGATATCACTGGAAGATATTCAAACCGTCTCTATGCTTACGAACCTGCAGATACAGCTCTGTG

FIGURE 129G

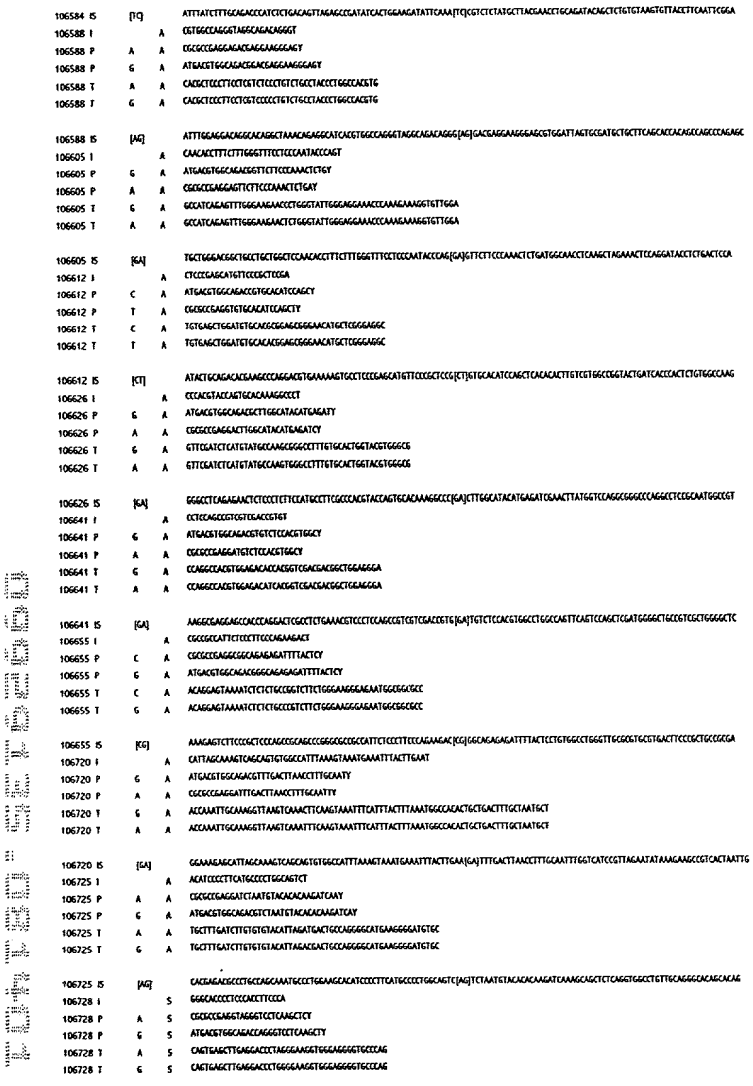
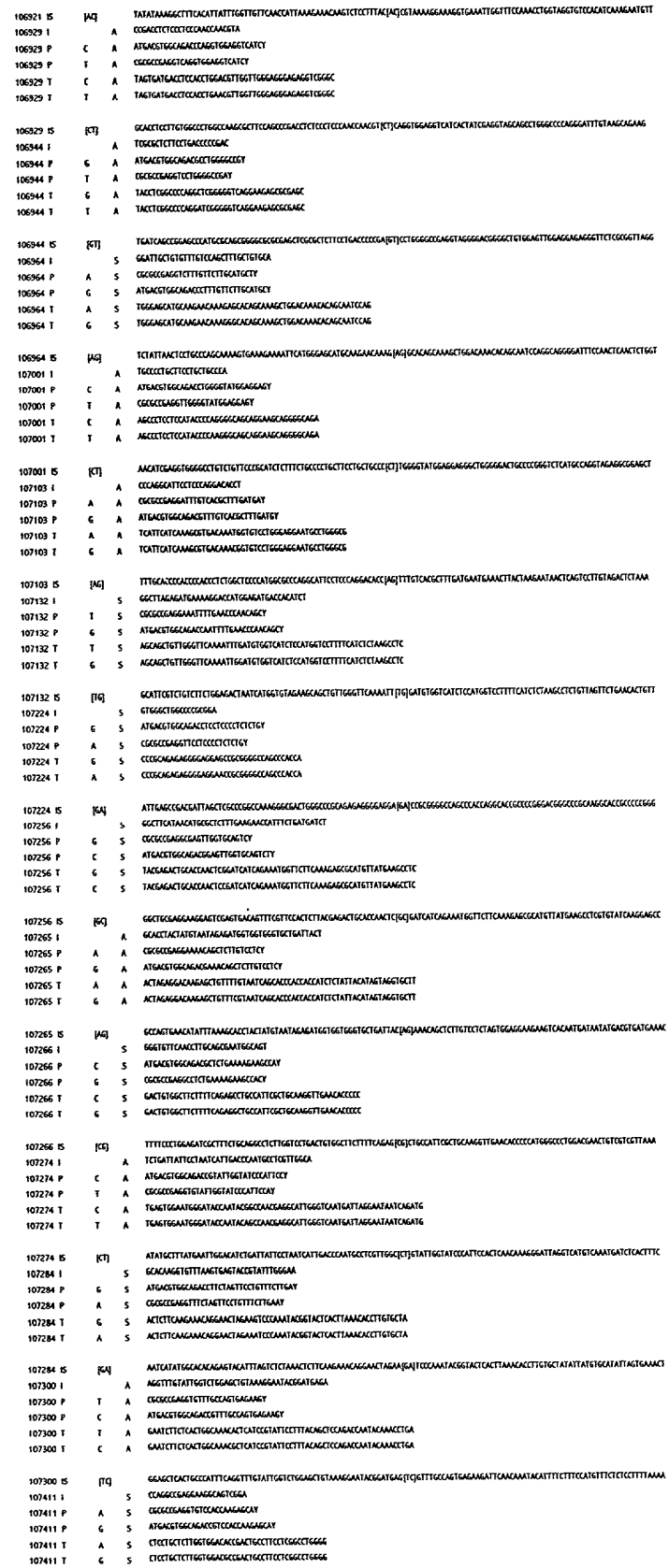

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106588 I A CGTGGCCAGGGTAGGCAGACAGGT
106588 P A A CGCGCCGAGGAGACGAGGAAGGAGY
106588 P G A ATGACGTGGCAGACGACGAGGAAGGGAGY
106588 T A A CACGCTCCCTTCCTGTCTCCCTGTCTGCCTACCCTGGCCACGTG
106588 T G A CACGCTCCCTTCCTGTCCCCCTGTCTGCCTACCCTGGCCACGTG
106588 IS [AG] ATTTGGAGGACAGGGCACAGGCTAAACAGAGGCATCACGTGGCCAGGGTAGGCAGACAGGG[AG]GACGAGGAAGGGAGCGTGGATTAGTGCGATGCTGCTTCAGCACCACAGCCAGCCCAGAGC
106605 I A CAACACCTTTCTTTGGGTTTCCTCCCAATACCCAGT
106605 P G A ATGAGGTGGCAGACGGTTCTTCCCAAACTCTGY
106605 P A A CGGCCGAGGAGTCTTCCCAAACTCTGAY
106605 T G A GCCATCAGAGTTTGGGAAGAACCCTGGGTATTGGGAGGAAACCCAAAGAAGGTGTTGGA
106605 T A A GCCATCAGAGTTTGGGAAGAACTCTGGGTATTGGGAGGAAACCCAAAGAAGGTGTTGGA
106605 IS [GA] TGCTGGAGGGCTGCCTGCTGGCTCCAACACCTTTCTTTGGGTTTCCTCCCAATACCCAG[GA]GTTCTTCCCAAACTCTGATGGCAACCTCAAGCTAGAAACTCCAGGATACCTCTGACTCCA
106612 I A CTCCCGAGCATGTTCCCGCTCCGA
106612 P C A ATGACGTGGCAGACCGTGCACATCCAGCY
106612 P T A CGCGCCGAGGTGTGCACATCCAGCTY
106612 T C A TGTGAGCTGGATGTGCACACGGAGCGGGAACATGCTCGGGAGGC
106612 T T A TGTGAGCTGGATGTGCACACGGAGCGGGAACATGCTCGGGAGGC
106612 IS [CT] ATACTGCAGACACGAAGCCCAGGACGTGAAAAAGTGCCTCCCGAGCATGTTCCCGCTCCG[CT]GTGCACATCCAGCTCACACACTTGTCGTGGCCGGTACTGATCACCCACTCTGTGGCCAAG
106626 I A CCCACGTACCAGTGCACAAAGGCCCT
106626 P G A ATGACGTGGCAGACGCTTGGCATACATGAGATY
106626 P A A CGCGCCGAGGACTTGGCATACATGAGATCY
106626 T G A GTTCGATCTCATGTATGCCAAGCGGCCTTTGTGCACTGGTACGTGGGCG
106626 T A A GTTCGATCTCATGTATGCCAAGTGGGCCTTTGTGCACTGGTACGTGGGCG
106626 IS [GA] GGGCCTCAGAGAACTCTCCCTCTTCCATGCCTTCGCCCACGTACCAGTGCACAAAGGCCC[GA]CTTGGCATACATGAGATCGAACTTATGGTCCAGGCGGGCCCAGGCCTCCGCAATGGCCGT
106641 I A CCTCCAGCCGTCGTCGACCGTGT
106641 P G A ATGACGTGGCAGACGTGTCTCCACGTGGCY
106641 P A A CGCGCCGAGGATGTCTCCACGTGGCY
106641 T G A CCAGCCCACGTGGAGACACCACGGTCGACGACGGCTGGAGGGA
106641 T A A CCAGGCCACGTGGAGACATCACGGTCGACGACGGCTGGAGGA
106641 IS [GA] AAGGCGAGGAGCCACCCAGGACTCGCCTCTGAAACGTCCCTCCAGCCGTCGTCGACCGTG[GA]TGTCTCCACGTGGCCTGGCCAGTTCAGTCCAGCTCGATGGGGCTGCCGTCGCTGGGGCTC
106655 I A CGCCGCCATTCTCCCTTCCCAGAAGACT
106655 P C A CGCGCCGAGGCGGCAGAGAGATTTTACTCY
106655 P G A ATGACGTGGCAGCGGGCAGAGAGATTTTACTCY
106655 T C A ACAGGAGTAAAATCTCTCTGCCGGTCTTCTGGGAAGGGAGAATGGCGGCGCC
106655 T G A ACAGGAGTAAAATCTCTCTGCCGGTCTTCTGGGAAGGGAGAATGGCGGCGCC
106655 IS [CG] AAAGAGTCTTCCCGCTCCCAGCCGCAGCCCGGGCGCGGCCATTCTCCCTTCCCAGAAGAC[CG]GGCAGAGAGATTTTACTCCTGTGGCCTGGGTTGCGCGTGCGTGACTTCCCGCTGCCGCGA
106720 I A CATTAGCAAAGTCAGCAGTGTGGCCATTTAAAGTAAATGAAATTTACTTGAAT
106720 P G A ATGACGTGGCAGACGTTTGACTTAACCTTTGCAATTY
106720 P A A CGCGCCGAGGATTTGACTTAACCTTTGCAATTY
106720 T G A ACCAAATTGCAAAGGTTAAGTCAAACTTCAAGTAAATTTCATTTACTTTAAATGGCCACACTGCTGACTTTGCTAATGCT
106720 T A A ACCAAATTGCAAAGGTTAAGTCAAATTTCAAGTAAATTTCATTTACTTTAAATGGCCACACTGCTGACTTTGCTAATGCT
106720 IS [GA] GGAAAGAGCATTAGCAAAGTCAGCAGTGTGGCCATTTAAAGTAAATGAAATTTACTTGAA[GA]TTTGACTTAACCTTTGCAATTTGGTCATCCGTTAGAATATAAAGAAGCCGTCACTAATTG
106725 I A ACATCCCCTTCATGCCCCTGGCAGTCT
106725 P A A CGCCCGAGGATCTAATGTACACACAAGATCAAY
106725 P G A ATGACGTGGCAGACGTCTAATGTACACACAAGATCAY
106725 T A A TGCTTTGATCTTGTGTGTACATTAGACGACTGCCAGGGGCATGAAGGGGATGTGC
106725 T G A TGCTTTGATCTTGTGTGTACATTAGACGACTGCCAGGGGCATGAAGGGGATGTGC
106725 IS [AG] CACGAGAGCCCTGCTAGCAAATGCCCTGGAAGCACATCCCCTTCATGCCCCTGGCAGTC[AG]TCTAATGTACACACAAGATCAAAGCAGCTCTCAGGTGGCCTGTTGCAGGGCACAGCACAG
106728 I S GGGCACCCCTCCCACCTTCCCA
106728 P A S CGCGCCGAGGTAGGGTCCTCAAGCTCY
106728 P G S ATGACGTGGCAGACCAGGGTCCTCAAGCTY
106728 T A S CAGTGAGCTTGAGGACCCTAGGGAAGGTGGGAGGGGTGCCCAG
106728 T G S CAGTGAGCTTGAGGACCCTGGGGAAGGTGGGAGGGGTGCCCAG
106728 IS [AG] GGCCACACACCCCACCCCATGCCTCCAGAGCTATCCATGAGCAGTGAGCTTGAGGACCCT[AG]GGGAAGGTGGGAGGGGTGCCCAGGCTGTGGGAGAAGGTCTTCACCATGCCTGCCCTGCCC
106847 I A CTCCGGAATGTCGTTCCTTCATTCATCTCTGACTGGTTATATT
106847 P G A ATGACGTGGCAGACGTCCAGAAGATGAACACGY
106847 P A A CGCGCCGAGGATCCAGAAGATGAACACGY
106847 T G A ACCACGTGTTCATCTTCTGGACATATAACCAGTCAGAGATGAATGAAGGAAGGACATTCCGGAGAA
106847 T A A ACCACGTGTTCATCTTCTGGATATATAACCAGTCAGAGATGAATGAAGGAAGGACATTCCGGAGAA
106847 IS [GA] ACCGCTTTGCATCCTTTCTCCGGAATGTCCTTCCTTCATTCATCTCTGACTGGTTATAT[GA]TCCAGAAGATGAACACGTGGTTTAAGCATGAGAACTATGGCCTGATGCCTTTAAATGGGT
106903 I A CAGCTGCCCCGCACTGCCT
106903 P C A CGCGCCGAGGCTCCAGCTCCCGAGY
106903 P G A ATGACGTGGCAGACGTCCAGCTCCCGAGY
106903 T C A GGGGCTCGGGAGCTGGAGGGCAGTGCGGGGCAGGCTGGA
106903 T G A GGGGCTCGGGAGCTGGACGGCAGTGCGGGGCAGGCTGGA
106903 IS [CG] CACCTCAGTGCTGCCATCTCCTCTCTTCACTGCCTTCCCTCCAGCCTGCCCCGCACTGCC[CG]TCCAGCTCCCGCAGCCCCTGCTTCCACCTATGTTCTCAGAATTCCCATTAGAACCCCAGCC
106905 I S CTGCCCCCGGGCAATGAGATACCACACT
106905 P T S CGCGCCGAGGACCCTTAAACCCACCAY
106905 P C S ATGACGTGGCAGACGCCCTTAAACCCACCY
106905 T T S GAGCTGGTGGGTTTAAGGGTGTGTGGTATCTCATTGCCCGGGGCAGGG
106905 T C S GAGCTGGTGGGTTTAAGGGCGTGTGGTATCTCATTGCCCGGGGCAGGG
106905 IS [TC] GTGCCTGGTGTCTGCATTGCCCTGGGTGTGTGTGTGCAGGAGCTGGTGGGTTTAAGGG[TC]GTGTGGTATCTCATTGCCCGGGGCAGGGTGTGTGTGCAGGAGCTGGTGGGTTTAAGGGTA
106913 I A ACAGTAAGGAAAGAAGCTTTGGGTTTCATTAGTTTGCT
106913 P A A CGCGCCGAGGATGGTGAAAAGAATTTTAAGTAGGY
106913 P C A ATGACGTGGCAGACCTGGTGAAAAGAATTTTAAGTAGGY
106913 T A A GCTTCCTACTTAAAATTCTTTTCACCATGCAAACTAATGAAACCCAAAGCTTCTTTCCTTACTGTTC
106913 T C A GCTTCCTACTTAAAATTCTTTTCACCAGGCAAACTAATGAAACCCAAAGCTTCTTTCCTTACTGTTC
106913 IS [AC] CTTTTTTAGGGCAGATACTAAGAACAGTAAGCAAAGAAGCTTTGGGTTTCATTAGTTTGC[AC]TGGTGAAAAGAATTTTAAGTAGGAAGCACTTTGAACTATGGCTGTCAGTATCATGTGTGA
106921 I S ACCTACCAGGTTTGGAAACCAATTTCACCTTTCCTTTTACGC
106921 P A S CGCGCCGAGGTGTAAAGGAGACTTGTTTCTTTY
106921 P C S ATGACGTGGCAGACGGTAAAGGAGACTTGTTTCTTY
106921 T A S CATTAAAGAAACAAGTCTCCTTTACAGTAAAAGGAAAGGTGAAATTGGTTTCCAAACCTGGTAGGTGT
106921 T C S CATTAAAGAAACAAGTCTCCTTTACCGTAAAAGGAAAGGTGAAATTGGTTTCCAAACCTGGTAGGTGT

FIGURE 129G


106921 IS [AC] TATATAAAGGCTTTCACATTATTTGGTTGTTCAACCATTAAAGAAACAAGTCTCCTTTAC[AC]CGTAAAAGGAAAGGTGAAATTGGTTTCCAAACCTGGTAGGTGTCCACATCAAAGAATGTT
106929 I A CCGACCTCTCCCTCCCAACCAACGTA
106929 P C A ATGACGTGGCAGACCCAGGTGGAGGTCATCY
106929 P T A CGCGCCGAGGTCAGGTGGAGGTCATCY
106929 T C A TAGTGATGACCTCCACCTGGACGTTGGTTGGGAGGGAGAGGTCGGGC
106929 T T A TAGTGATGACCTCCACCTGAACGTTGGTTGGGAGGGAGAGGTCGGGC
106829 IS [CT] GCACCTCCTTGTGGCCCTGGCCAAGCGCTTCCAGCCCGACCTCTCCCTCCCAACCAACGT[CT]CAGGTGGAGGTCATCACTATCGAGGTAGCAGCCTGGGCCCCAGGGATTTGTAAGCAGAAG
106944 I A TCGCGCTCTTCCTGACCCCCGAC
106944 P G A ATGACGTGGCAGACGCCTGGGGCCGY
106944 P T A CGCGCCGAGGTCCTGGGGCCGAY
106944 T G A TACCTCGGCCCCAGGCTCGGGGGTCAGGAAGAGCGCGAGC
106944 T T A TACCTCGGCCCCAGGATCGGGGGTCAGGAAGAGCGCGAGC
106944 IS [GT] TGATCAGCCGGAGCCCATGCGCAGCGGGGCGCGCGAGCTCGCGCTCTTCCTGACCCCCGA[GT]CCTGGGGCCGAGGTAGGGGAACGGGGCTGTGGAGTTGGAGGAGAGGGTTCTCGCGGTTAGG
106964 I S GGATTGCTGTGTTTGTCCAGCTTTGCTGTGCA
106964 P A S CGCGCCGAGGTCTTTGTTCTTGCATGCTY
106964 P G S ATGACGTGGCAGACCCTTTGTTCTTGCATGCY
106964 T A S TGGGAGCATGCAAGAACAAAGAGCACAGCAAAGCTGGACAAACACAGCAATCCAG
106964 T G S TGGGAGCATGCAAGAACAAAGGGCACAGCAAAGCTGGACAAACACAGCAATCCAG
106964 IS [AG] TCTATTAACTCCTGCCCAGCAAAAGTGAAAGAAAATTCATGGGAGCATGCAAGAACAAAG[AG]GCACAGCAAAAGCTGGACAAACACAGCAATCCAGGCAGGGGATTTCCAACTCAACTCTGGT
107001 I A TGCCCCTGCTTCCTGCTGCCCA
107001 P C A ATGACGTGGCAGACCTGGGGTATGGAGGAGY
107001 P T A CGCGCCGAGGTTGGGGTATGGAGGAGY
107001 T C A AGCCCTCCTCCATACCCCAGGGGCAGCAGGAAGCAGGGGCAGA
107001 T T A AGCCCTCCTCCATACCCCAAGGGCAGCAGGAAGCAGGGGCAGA
107001 IS [CT] AACATCGAGGTGGGGCCTGTCTGTTCCCGCATCTCTTTCTGCCCCTGCTTCCTGCTGCCC[CT]TGGGGTATGGAGGAGGGCTGGGGGACTGCCCCGGGTCTCATGCCAGGTAGAGGCGGAGCT
107103 I A CCCAGGCATTCCTCCCAGGACACCT
107103 P A A CGCGCCGAGGATTTGTCACGCTTTGATGAY
107103 P G A ATGACGTGGCAGACGTTTGTCACGCTTTGATGY
107103 T A A TCATTCATCAAAGCGTGACAAATGGTGTCCTGGGAGGAATGCCTGGGCG
107103 T G A TCATTCATCAAAGCGTGACAAACGGTGTCCTGGGAGGAATGCCTGGGCG
107103 IS [AG] TTTGCACCCCACCCCACCCTCTGGCTCCCCATGGCGCCCAGGCATTCCTCCCCAGGACACC[AG]TTTGTCACGCTTTGATGAATGAAACTTACTAAGAATAACTCAGTCCTTGTAGACTCTAAA
107132 I S GGCTTAGAGATGAAAAGGACCATGGAGATGACCACATCT
107132 P T S CGCGCCGAGGAAATTTTGAACCCAACAGCY
107132 P G S ATGACGTGGCAGACCAATTTTGAACCCAACAGCY
107132 T T S AGCAGCTGTTGGGTTCAAAATTGATGTGGTCATCTCCATGGTCCTTTTCATCTCTAAGCCTC
107132 T G S AGCAGCTGTTGGGTTCAAAATTGGATGTGGTCATCTCCATGGTCCTTTTCATCTCTAAGCCTC
107132 IS [TG] GCATTCGTCTGTCTTCTGGAAGACTAATCATGGTGTAGAAGCAGCTGTTGGGTTCAAAATT[TG]GATGTGGTCATCTCCATGGTCCTTTTCATCTCTAAGCCTCTGTTAGTTCTGAACACTGTT
107224 I S GTGGGCTGGCCCCCGGGA
107224 P G S ATGACGTGGCAGACCTCCTCCCCTCTCTGY
107224 P A S CGCGCCGAGGTTCCTCCCCTCTCTGY
107224 T G S CCCGCAGAGAGGGAGGAGCCGCGGGGCCAGCCCACCA
107224 T A S CCCGCAGAGAGGGAGGAACCGCGGGGCCAGCCCACCA
107224 IS [GA] ATTGAGCCGACGATTAGCTCGCCCGGCCAAAGGGCGACTGGGCCCGCAGAGAGGGGAGGA[GA]CCGCGGGGCCAGCCCACCAGGCACCGCCCCGGGACGGGCCCGCAAGGCACCGCCCCGGG
107256 I S GGCTTCATAACATGCGCTCTTTGAAGAACCATTTCTGATGATCT
107256 P G S CGCGCCCGAGGCGAGTTGGTGCAGTCY
107256 P C S ATGACGTGGCAGACGGAGTTGGTGCAGTCTY
107256 T G S TACCAGACTGCACCAACTCGGATCATCAGAAATGGTTCTTCAAAGAGCGCATGTTATGAAGCCTC
107256 T C S TACGAGACTGCACCAACTCCGATCATCAGAAATGGTTCTTCAAAGAGCGCATGTTATGAAGCCTC
107256 IS [GC] GGCTGCGAGGAAGGAGTCGAGTGACAGTTTCGTTCCACTCTTACGAGACTGCACCAACTC[GC]GATCATCAGAAATGGTTCTTCAAAGAGCGCATGTTATGAAGCCTCGTGTATCAAGGAGCC
107265 I A GCACCTACTATGTAATAGAGATGGTGGTGGGTGCTGATTACT
107265 P A A CGCGCCGAGGAAAACAGCTCTTGTCCTCY
107265 P G A ATGACGTGGCAGACGAAACAGCTCTTGTCCTCY
107265 T A A ACTAGAGGACAAGAGCTGTTTTGTAATCAGCACCCACCACCATCTCTATTACATAGTAGGTGCTT
107265 T G A ACTAGAGGACAAGAGCTGTTTCGTAATCAGCACCCACCACCATCTCTATTACATAGTAGGTGCTT
107265 IS [AG] GCCAGTGAACATATTTAAAGCACCTACTATGTAATAGAGATGGTGGTGGGTGCTGATTAC[AG]AAACAGCTCTTGTCCTCTAGTGGAGGAAGAAGTCACATTGATAATATGACGTGATGAAAC
107266 I S GGGTGTTCAACCTTGCAGCGAATGGCAGT
107266 P C S ATGACGTGGCAGACGCTCTGAAAAGAAGCCAY
107266 P G S CGCGCCGAGGCCTCTGAAAAGAAGCCACY
107266 T C S GACTGTGGCTTCTTTTCAGAGCCTGCCATTCGCTGCAAGGTTGAACACCCCC
107266 T G S GACTGTGGCTTCTTTTCAGAGCCTGCCATTCGCTGCAAGGTTGAACACCCCC
107266 IS [CG] TTTTCCCTGGAGATCGCTTTCTCGCAGGCCTCTTGGTCCTGACTGTGGCTTCTTTTCAGAG[CG]CTGCCATTCGCTGCAAGGTTGAACACCCCATGGGCCCTGGACGAACTGTCGTCGTTAAA
107274 I A TCTGATTATTCCTAATCATTGACCCAATGGCTCGTTGGCA
107274 P C A ATGACGTGGCAGACCGTATTGGTATCCCATTCCY
107274 P T A CGCGCCGAGGTGTATTGGTATCCCATTCCAY
107274 T C A TGAGTGGAATGGGATACCAATACGGCCAACGAGGCATTGGGTCAATGATTAGGAATAATCAGATG
107274 T T A TGAGTGGAATGGGATACCAATACAGCCAACGAGGCATTGGGTCAATGATTAGGAATAATCAGATG
107274 IS [CT] ATATGCTTTATGAATTGGACATCTGATTATTCCTAATCATTGACCCAATGCCTCGTTGGC[CT]GTATTGGTATCCCATTCCACTCAACAAAGGGATTAGGTCATGTCAAATGATCTCACTTTC
107284 I S GCACAAGGTGTTTAAGTGAGTACCGTATTTGGGAA
107284 P G S ATGACGTGGCAGACCTTCTAGTTCCTGTTTCTTGAY
107284 P A S CGCGCCGAGGTTTCTAGTTCCTGTTTCTTGAAY
107284 T G S ACTCTTCAAGAAACAGGAACTAGAAGTCCCAAATACGGTACTCACTTAAACACCTTGTGCTA
107284 T A S ACTCTTCAAGAAACAGGAACTAGAAATCCCAAATACGGTACTCACTTAAACACCTTGTGCTA
107284 IS [GA] AATCATATGGCACACAGAGTACATTTAGTCTCTAAACTCTTCAAGAAACAGGAACTAGAA[GA]TCCCAAATACGGTACTCACTTAAACACCTTGTGCTATATTATGTGCATATTAGTGAAACT
107300 I A AGGTTTGTATTGGTCTGGAGCTGTAAAGGAATACGGATGAGA
107300 P T A CGCGCCGAGGTGTTTGCCAGTGAGAAGY
107300 P C A ATGACGTGGCAGACCGTTTGCCAGTGAGAAGY
107300 T T A GAATCTTCTCACTGGCAAACACTCATCCGTATTCCTTTACAGCTCCAGACCAATACAAACCTGA
107300 T C A GAATCTTCTCACTGGCAAACGCTCATCCGTATTCCTTTACAGCTCCAGACCAATACAAACCTGA
107300 IS [TC] GGAGCTCACTGCCCATTTCAGGTTTGTATTGGTCTGGAGCTGTAAAGGAATACGGATGAG[TC]GTTTGCCAGTGAGAAGATTCAACAAATACATTTCTTTCCATGTTTCTCTCCTTTTAAAA
107411 I S CCAGGCCGAGGAAGGCAGTCGGA
107411 P A S CGCGCCGAGGTGTCCACCAAGAGCAY
107411 P G S ATGACGTGGCAGACCGTCCACCAAGAGCAY
107411 T A S CTCCTGCTCTTGGTGGACACCGACTGCCTTCCTCGGCCTGGGG
107411 T G S CTCCTGCTCTTGGTGGACACCGACTGCCTTCCTCGGCCTGGGG

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107411 IS  [AG]      GCCCCATCTGTGGGCCTCTCGTTCCGAGGCAGCTCCTTGCTACTCCTGCTCTTGGTGGACA[AG]CCGACTGCCTTCCTCGGCCTGGGGCGCTGGCCTCTGCCTCGCCAGCATCCACACCACTGT
107425 I        A   CACCTCTCCCCTAGTGGAGGCATCATCACTTCATA
107425 P  C     A   ATGACGTGGCAGACCTTACTCTTTCTTAGCAGTTACAY
107425 P  T     A   CGCGCCGAGGTTTACTCTTTCTTAGCAGTTACAY
107425 T  C     A   GTATTGTAACTGCTAAGAAAGAGTAAGATGAAGTGATGATGCCTCCACTAGGGAGAGGTGGC
107425 T  T     A   GTATTGTAACTGCTAAGAAAGAGTAAAATGAAGTGATGATGCCTCCACTAGGGAGAGGTGGC

107425 IS  [CT]      ATGAGGGATGACAGGGATCCTTAGGGCCACCTCTCCCCTAGTGGAGGCATCATCACTTCAT[CT]TTACTCTTTCTTAGCAGTTACAATACCCCTAATATTTTGTGTCACTCCATTCTTAGACTA
107432 I        S   CAACTCCTTCATCCCAGTCCCAGTCATCATCATCATCT
107432 P  T     S   CGCGCCGAGGATCATAACCCTCCTCCTCT
107432 P  C     S   ATGACGTGGCAGACGTCATAACCCTCCTCCTT
107432 T  T     S   TGAGGAGGAGGAGGGTTATGATGATGATGATGACTGGGACTGGGATGAAGGAGTTGGA
107432 T  C     S   TGAGGAGGAGGAGGGTTATGACGATGATGATGACTGGGACTGGGATGAAGGAGTTGGA

107432 IS  [TC]      AGACAATGTGAATGAGAATGGTGAAGGTGAAATAGAAGATGAGGAGGAGGAGGGTTATGA[TC]GATGATGATGATGACTGGGACTGGGATGAAGGAGTTGGAAAACTCGCCAAGGGTTATGTC
107480 I        S   AGGGGCTGGAGCCTGGGAACTGTTA
107480 P  G     S   ATGACGTGGCAGACCCTGCAGTGTTCCAAAY
107480 P  A     S   CGCGCCGAGGTGTGCAGTGTTCCAAATAAY
107480 T  G     S   ATGGTTATTTGGAACACTGCACGAACAGTTCCCAGGCTCCAGCCCCTAG
107480 T  A     S   ATGGTTATTTGGAACACTGCACAAACAGTTCCCAGGCTCCAGCCCTAG

107480 IS  [GA]      CACCTGGATCTTCTCCAGCAGGTGAGCCTAAACACCACATGGTTATTTGGAACACTGCAC[GA]AACAGTTCCCAGGCTCCAGCCCCTAGGCCTTTTGAATTGGTTTCCACAACGTAAGGGTTA
107490 I        A   CTTTTCTACCCCCTTGAAAAGACATGGTTAAAAGACTGT
107490 P  C     A   ATGACGTGGCAGACCTGTCTGTTAAAAAATGGATTAAAACY
107490 P  A     A   CGCGCCGAGGATGTCTGTTAAAAAATGGATTAAAACY
107490 T  C     A   CCAAGTTTTAATCCATTTTTTAACAGACAGCAGTCTTTTAACCATGTCTTTTCAAGGGGGTAGAAAAGAA
107490 T  A     A   CCAAGTTTTAATCCATTTTTTAACAGACATCAGTCTTTTAACCATGTCTTTTCAAGGGGGTAGAAAAGAA

107490 IS  [CA]      TAGAAATGCCTCTTATAGTTTTCTTTTCTACCCCTTGAAAAGACATGGTTAAAAGACTG[CA]TGTCTGTTAAAAAATGGATTAAAACTTGGAGATGAATAAATACAGTGCCTCAGCTATATG
107506 I        A   CACAGATGGCATCCAGACGGACGGCT
107506 P  G     A   ATGACGTGGCAGACGAACCAGCGGGACGY
107506 P  A     A   CGCGCCGAGGAAACCAGCGGGACGY
107506 T  G     A   ACAACGTCCCGCTGGTTCGCCGTCCGTCTGGATGCCATCTGTGCC
107506 T  A     A   ACAACGTCCCGCTGGTTGCCGTCCGTCTGGATGCCATCTGTGCC

107506 IS  [GA]      CAGGGACCCAAAGGCAACGATGATGACAAACATGGCACAGATGGCATCCAGACGGACGGC[GA]AACCAGCGGGACGTTGTCAAAAACAAGAACCAAGCCTCTGAATTTGAGAACGGTAATAAG
107577 I        S   GCACTCAGGGGTCTCTCTTTGGTCTTGTAAGCT
107577 P  C     S   ATGACGTGGCAGACGGCATCCCTTTTGTCACY
107577 P  T     S   CGCGCCGAGGAGCATCCCTTTTGTCACY
107577 T  C     S   ACCTGTGACAAAAGGGATGCCGCTTACAAGACCAAAGAGAGACGCCTGAGTGCAG
107577 T  T     S   ACCTGTGACAAAAGGGATGCTGCTTACAAGACCAAAGAGAGACGCCTGAGTGCAG

107577 IS  [CT]      TCTCCAAATAGCCCCTACTTACAAGGAGAGAGGGAAAATTTAACCTGTGACAAAAGGGATGC[CT]GCTTACAAGACCAAAGAGAGACGCCTGAGTGCAGCCAACACCACAGAGATGGGTCAGAGGT
107578 I        A   GTTAAAGGGGGAGCAGAGACCTGTGGGGA
107578 P  T     A   CGCGCCGAGGTCAGGATCATAATGTTAGTATGAGY
107578 P  C     A   ATGACGTGGCAGACCCAGGATCATAATGTTAGTATGAY
107578 T  T     A   CTACCTCATACTAACATTATGATCCTGACCCCACAGGTCTCTGCTCCCCCTTTAACCT
107578 T  C     A   CTACCTCATACTAACATTATGATCCTGGCCCCACAGGTCTCTGCTCCCCCTTTAACCT

107578 IS  [TC]      CCTGGGAATAGGCGTGGGTGATGTTCATCCAGGTTAAAGGGGAGCAGAGACCTGTGGGG[TC]CAGGATCATAATGTTAGTATGAGGTAGTGAATGGCTAGAGGCACAGCCCCAGAGAAGCTG
107600 I        A   GGCCGGGTTCGGGGAGCTGTA
107600 P  T     A   CGCGCCGAGGTGTGGCATTTCTGGATGY
107600 P  C     A   ATGACGTGGCAGACCGTGGCATTTTCTGGATY
107600 T  T     A   GCCTCATCCAGAAAATGCCACAACAGCTCCCCGAACCCGGCCAC
107600 T  C     A   GCCTCATCCAGAAAATGCCACGACAGCTCCCCGAACCCGGCCAC

107600 IS  [TC]      GGCCCTGCAGTCCGGCCTCACCGTGCCCCTCCGTGCCAGTGGCCGGGTTCGGGGAGCTGT[TC]GTGGCATTTTCTGGATGAGGCTCAGGGTCTACATCTCAGCCAGGCCTGAGACCCCTTCCA
107604 I        A   GGACCGCGTCTTCCACGCCATCACA
107604 P  C     A   ATGACGTGGCAGACCGAGTCTGGGGTGAGY
107604 P  T     A   CGCGCCGAGGTGAGTCTGGGGTGAGY
107604 T  C     A   GCAGCTCACCCCAGACTCGGTGATGGCGTGGAAGACGCGGTCCAC
107604 T  T     A   GCAGCTCACCCCAGACTCAGTGATGGCGTGGAAGACGCGGTCCAC

107604 IS  [CT]      CCGTGTCCCGTTGCAGGAGAACCTACGGCAGTATGTGGACCGCGTCTTCCAGCCATCAC[CT]GAGTCTGGGGTGAGTGCCCGACCGTCATGTGTGACATCTTCTCTCCCTCCGGGAGGCG
107605 I        A   GGGAGCGGCGGCCAAGCT
107605 P  G     A   ATGACGTGGCAGACGCTTCCAGGGTGAGTY
107605 P  A     A   CGCGCCGAGGACTTCCAGGGTGAGTGY
107605 T  G     A   AGGGCACTCACCCTGGAAGCGCTTGGCCGCCGCCTCCCGG
107605 T  A     A   AGGGCACTCACCCTGGAAGTGCTTGGCCGCCGCCTCCCGG

107605 IS  [GA]      TGAGCTGCCCGACCGTCATGTGTGACATCTTCTTCTCCCTCCGGGAGGCGGCGGCCAAGC[GA]CTTCCAGGGTGAGTGCCCTGAACACCCTCATGTTGCTGAGAAACGGCCATAGCGCTGTGC
107606 I        S   GCGGCGGGGCAGCAGCTGTTT
107606 P  G     S   CGCGCCGAGGCTGGGCAGGTGAAGGY
107606 P  C     S   ATGACGTGGCAGACGTGGGCAGGTGAAGGY
107606 T  G     S   CCTGCCTTCACCTGCCCAGAACAGCTCCTGCCCCGCCGCTC
107606 T  C     S   CCTGCCTTCACCTGCCCACAACAGCTCCTGCCCCGCCGCTC

107606 IS  [GC]      CAGCCCCTGTGGAAGATAAGAAGGAGGTCCTTCAGCCACCAGCCTGCCTTCACCTGCCCA[GC]AACAGCTCCTGCCCGCCGCTCCGTTCCGCCTCACAGTGCCCACAGAGGTCTGCTCCCGG
107611 I        S   CACAGGCAAATCACTGAGCCCTGTGTGACAGT
107611 P  G     S   CGCGCCGAGGCTGGAGGATCAGAGCTY
107611 P  C     S   ATGACGTGGCAGACGTGGAGGATCAGAGCTY
107611 T  G     S   TGCCAGCTCTGATCCTCCAGCTGTCACACAGGGCTCAGTGATTTCCCTGTGTC
107611 T  C     S   TGCCAGCTCTGATCCTCCACCTGTCACACAGGGCTCAGTGATTTCCCTGTGTC

107611 IS  [GC]      ATGAGAATGCTGAGAACGGGGTTCCTGCTCACTCTGTTGCCTGCCAGCTCTGATCCTCCA[GC]CTGTCACACAGGGCTCAGTGATTTCCCTGTGTCTTTACAGGATGGAGGGCAAAGCCAAGT
107622 I        S   CTGTTAGCAGGTGGACCATAACTATGGCAAACAGAC
107622 P  A     S   CGCGCCGAGGTTTAACCACCATGTGTATCTGY
107622 P  T     S   ATGACGTGGCAGACATTAACCACCATGTGTATCTGY
107622 T  A     S   TTCACAGATACACATGGTGGTTAAATCTGTTTTGCCATAGGTATGGTCCACCTGCTAACAGTC
107622 T  T     S   TTCACAGATACACATGGTGGTTAATTCTGTTTTGCCATAGGTATGGTCCACCTGCTAACAGTC

107622 IS  [AT]      GAAGGGTGAAGAGTCCTAAACTTAAGCCATCCCCATTCACAGATACACATGGTGGTTAA[AT]TCTGTTTTGCCATAGGTATGGTCCACCTGCTAACAGTCAAATTCACGAAAGTCTCAGTGG
107625 I        A   GAGCAGGACAGGCTGGGATGGAAAATGAAGAATCT
107625 P  A     A   CGCGCCGAGGAGTGCTTTAGCCGACAY
107625 P  G     A   ATGACGTGGCAGACGGTGCTTTAGCCGACY
107625 T  A     A   TTGTTGTCGGCTAAAGCACTGATTCTTCATTTTCCCATCCCAGCCTGTCCTGCTCTG
107625 T  G     A   TTGTTGTCGGCTAAAGCACCGATTCTTCATTTTCCCATCCCAGCCTGTCCTGCTCTG
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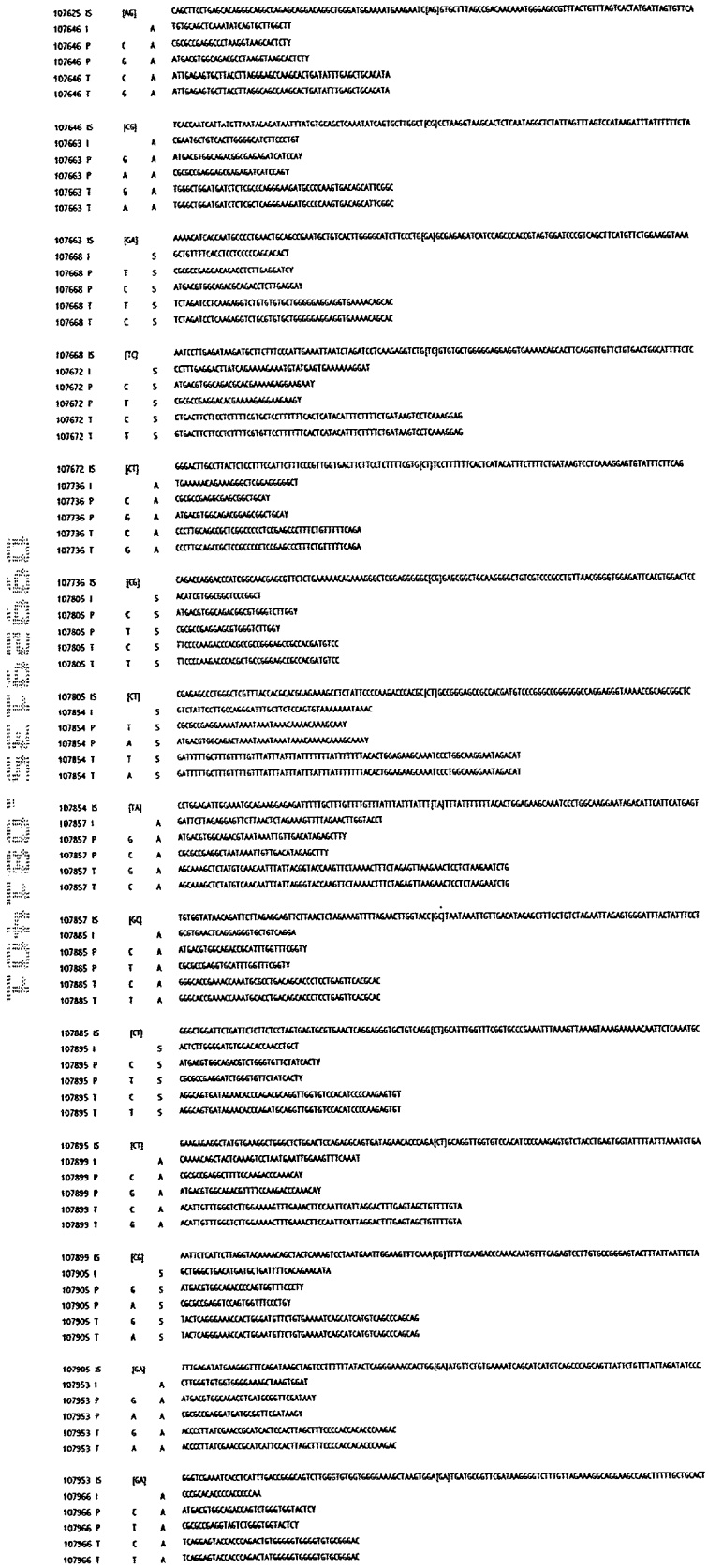


FIGURE 129G

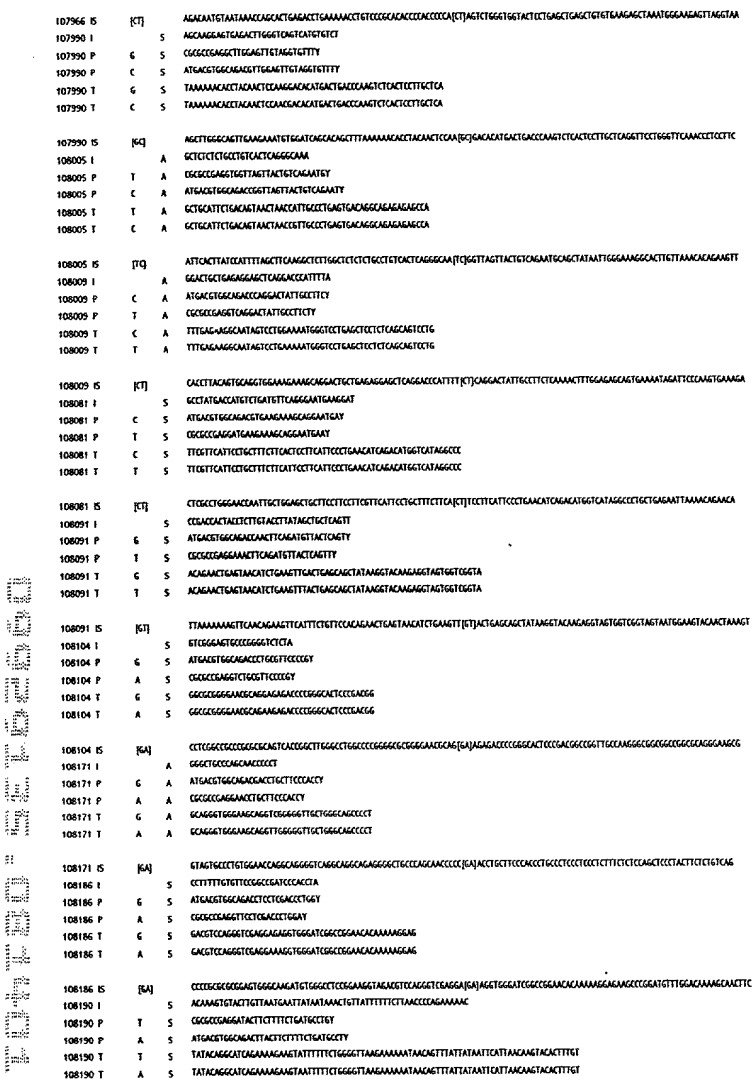

107966 IS [CT] AGACAATGTAATAAACCAGCACTGAGACCTGAAAAACCTGTCCCGCACACCCCACCCCCA[CT]AGTCTGGGTGGTACTCCTGAGCTGAGCTGTGTGAAGAGCTAAATGGGAAGAGTTAGGTAA
107990 I S AGCAGGAGTGAGACTTGGGTCAGTCATGTGTCT
107990 P G S CGCGCCGAGGCTTGGAGTTGTAGGTGTTTY
107990 P C S ATGACGTGGCAGACGTTGGAGTTGTAGGTGTTTY
107990 T G S TAAAAAACACCTACAACTCCAAGGACACATGACTGACCCAAGTCTCACTCCTTGCTCA
107990 T C S TAAAAAACACCTACAACTCCAACGACACATGACTGACCCAAGTCTCACTCCTTGCTCA
107990 IS [GC] AGCTTGGGCAGTTGAAGAAATGTGGATCAGCACAGCTTTAAAAAACACCTACAACTCCAA[GC]GACACATGACTGACCCAAGTCTCACTCCTTGCTCAGGTTCCTGGGTTCAAACCCTCCTTC
108005 I A GCTCTCTCTGCCTGTCACTCAGGGCAAA
108005 P T A CGCGCCGAGGTGGTTAGTTACTGTCAGAATGY
108005 P C A ATGACGTGGCAGACCGGTTAGTTACTGTCAGAATY
108005 T T A GCTGCATTCTGACAGTAACTAACCATTGCCCTGAGTGACAGGCAGAGAGAGCCA
108005 T C A GCTGCATTCTGACAGTAACTAACCGTTGCCCTGAGTGACAGGCAGAGAGAGCCA
108005 IS [TC] ATTCACTTATCCATTTTAGCTTCAAGGCTCTTGGCTCTCTCTGCCTGTCACTCAGGGCAA[TC]GGTTAGTTACTGTCAGAATGCAGCTATAATTGGGAAAGGCACTTGTTAAACACAGAAGTT
108009 I A GGACTGCTGAGAGGAGCTCAGGACCCATTTTA
108009 P C A ATGACGTGGCAGACCCAGGACTATTGCCTTCY
108009 P T A CGCGCCGAGGTCAGGACTATTGCCTTCTY
108009 T C A TTTGAG+AGGCAATAGTCCTGGAAAATGGGTCCTGAGCTCCTCTCAGCAGTCCTG
108009 T T A TTTGAGAAGGCAATAGTCCTGAAAAATGGGTCCTGAGCTCCTCTCAGCAGTCCTG
108009 IS [CT] CACCTTACAGTGCAGGTGGAAAGAAAGCAGGACTGCTGAGAGGAGCTCAGGACCCATTTT[CT]CAGGACTATTGCCTTCTCAAAACTTTGGAGAGCAGTGAAAATAGATTCCCAAGTGAAAGA
108081 I S GCCTATGACCATGTCTGATGTTCAGGGAATGAAGGAT
108081 P C S ATGACGTGGCAGACGTGAAGAAAGCAGGAATGAAY
108081 P T S CGCGCCGAGGATGAAGAAAGCAGGAATGAAY
108081 T C S TTCGTTCATTCCTGCTTTCTTCATCCTTCATTCCCTGAACATCAGACATGGTCATAGGCCC
108081 T T S TTCGTTCATTCCTGCTTTCTTCATCCTTCATTCCCTGAACATCAGACATGGTCATAGGCCC
108081 IS [CT] CTCGCCTGGGAACAATTGCTGGAGCTGCTTCCTTCCTTCGTTCATTCCTGCTTTCTTCA[CT]TCCTTCATTCCCTGAACATCAGACATGGTCATAGGCCCTGCTGAGAATTAAAACAGAACA
108091 I S CCGACCACTACCTCTTGTACCTTATAGCTGCTCAGTT
108091 P G S ATGACGTGGCAGACAACTTCAGATGTTACTCAGTY
108091 P T S CGCGCCGAGGAAACTTCAGATGTTACTCAGTTY
108091 T G S ACAGAACTGAGTAACATCTGAAGTTGACTGAGCAGCTATAAGGTACAAGAGGTAGTGGTCGGTA
108091 T T S ACAGAACTGAGTAACATCTGAAGTTTACTGAGCAGCTATAAGGTACAAGAGGTAGTGGTCGGTA
108091 IS [GT] TTAAAAAAGTTCAACAGAAGTTCATTTCTGTTCCACAGAACTGAGTAACATCTGAAGTT[GT]ACTGAGCAGCTATAAGGTACAAGAGGTAGTGGTCGGTAGTAATGGAAGTACAACTAAAGT
108104 I S GTCGGGAGTGCCCGGGGTCTCTA
108104 P G S ATGACGTGGCAGACCCTGGGTTCCCCGY
108104 P A S CGCGCCGAGGTCTGGGTTCCCCGY
108104 T G S GGCGCGGGGAAGCGAGGAGAGACCCGGGCACTCCCGACGG
108104 T A S GGCGCGGGGAAGCGAGAAGAGACCCGGGCACTCCCGACGG
108104 IS [GA] CCTCGGCCGCCCGGCGCGCAGTCACCGGCTTGGGCCTGGCCCCGGGGCGCGGGGAACCCAG[GA]AGAGACCCCGGGCACTCCCGACGGCCGGTTGCCAAGGGCGGCGGCCGCGCCAGGGAAGCG
108171 I A GGGCTGCCCAGCAACCCCCT
108171 P G A ATGACGTGGCAGACGCACTGCTTCCCACCY
108171 P A A CGCGCCGAGGAACCTGCTTCCCACCY
108171 T G A GCAGGGTGGGAAGCAGGTCGGGGGGTTGCTGGGCAGCCCCT
108171 T A A GCAGGGTGGGAAGCAGGTTGGGGGTTGCTGGGCAGCCCCT
108171 IS [GA] GTAGTGCCCTGTGGAACCAGGCAGGGGTCAGGCAGGCAGAGGGGCTGCCCAGCAACCCCC[GA]ACCTGCTTCCCACCCTGCCCTCCCTGCCTCTTCTCTCCAGCTCCCTACTTCTCTGTCAG
108186 I S CCTTTTTGTGTTCCGGCCGATCCCACCTA
108186 P G S ATGACGTGGCAGACCTCCTCGACCCTGGY
108186 P A S CGCGCCGAGGTCCTCGACCCTGGAY
108186 T G S GACGTCCAGGGTCGAGGAGAAGGTGGGATCGGCCGGAACACAAAAAGGAG
108186 T A S GACGTCCAGGGTCGAGGAAAAGGTGGGATCGGCCGGAACACAAAAAGGAG
108186 IS [GA] CCCCGCGCGGGGAGTGGGCAAGATGTGGGCCTCCGGAAGGTAGACGTCCAGGGTCGAGGA[GA]AGGTGGGATCGGCCGGAACACAAAAAGGAGAAGCCCGGATGTTTGGACAAAGCAACTTC
108190 I S ACAAAGTGTACTTGTTAATGAATTATAATAAACTGTTATTTTTTCTTAACCCAGAAAAAC
108190 P T S CGCGCCGAGGATACTTCTTTTCTGATGCCTGY
108190 P A S ATGACGTGGCAGACTTACTTCTTTTCTGATGCCTY
108190 T T S TATACAGGCATCAGAAAAGAAGTAATTTTTCTGGGGTTAAGAAAAAATAACAGTTTATTATAATTCATTAACAAGTACACTTTGT
108190 T A S TATACAGGCATCAGAAAAGAAGTAATTTTTCTGGGGTTAAGAAAAAATAACAGTTTATTATAATTCATTAACAAGTACACTTTGT
108190 IS [TA] GGGTGTAATTCATAAGGTAATATATATTGGTCAGTGTATACAGGCATCAGAAAAGAAGTA[TA]TTTTTCTGGGGTTAAGAAAAAATAACAGTTTATTATAATTCATTAACAAGTACACTTTGT
108199 I A CAGCAGCTCTACCCCTCACGACGCAT
108199 P A A CGCGCCGAGGAACATGGCAGCGCY
108199 P G A ATGACGTGGCAGACGACATGGCAGCGCY
108199 T A A TTCTGCGCTGCCATGTTTGCGTCGTGAGGGGTAGAGCTGCTGTA
108199 T G A TTCTGCGCTGCCATGTCTGCGTCGTGAGGGGTAGAGCTGCTGTA
108199 IS [AG] GGGCCGGCGGGGTCTTCAGGGTACCGGGCTGGTTACAGCAGCTCTACCCCTCACGACGCA[AG]ACATGGCAGCGCAGAAGGACCAGCAGAAAAATGCCGAGGCGGAAGGGCTGAGCGGCACGT
108203 I S CCCTGTCGGCGCCCCCCT
108203 P G S CGCGCCGAGGCGCGCCTACCGY
108203 P C S ATGACGTGGCAGACGGCCGCCTACCGY
108203 T G S CATACGGTAGGCGGCGGGGGGGGCGCGACAGGGCT
108203 T C S CATACGGTAGGCGGCGGGGGGGCGCGACAGGGCT
108203 IS [GC] GCTGCCTCAGGGAGCCCGCGACCGCGCCTTCTCCTCCGCCGGTCCCATACGGTAGGCGGC[GC]GGGGGGGGCGCGACAGGGCTTGGGGTGTCGACGGCACAGGCCCCTCCGTTTGGCCCCATG
108211 I S CCTGCCACCTCCTCCCCTCTCCCA
108211 P G S ATGACGTGGCAGACCTGCAGCCCTCCCY
108211 P A S CGCGCCGAGGTTGCAGGCCTCCCY
108211 T G S ATGAGGCAGGCCTGCAGGGGAGAGGGGAGGAGGTGGCAGGC
108211 T A S ATGAGGCAGGCCTGCAAGGCAGAGGGGAGGAGGTGGCAGGC
108211 IS [GA] AGAGCAACCCCGGGACCCGGTGCCCACTGGTGCCTCCACTGCAGATGAGGGAGGCCTGCA[GA]GGGAGAGGGGGAGGAGGTGGCAGGGCGCGCAGGGCCCGACCCAAGCCTCCAATATGGGGGCC
108220 I A GACCAGTCCCACCTCCGGACACGTA
108220 P C A ATGACGTGGCAGACCGACTCACTGTACACGY
108220 P T A CGCGCCGAGGTGACTCACTGTACACGGY
108220 T C A ATCACCGTGTACAGTGAGTCGACGTGTCCGGAGGTGGGACTGGTCTT
108220 T T A ATCACCGTGTACAGTGAGTCAACGTGTCCGGAGGTGGGACTGGTCTT
108220 IS [CT] CTGAGCCATTGGCCACTTGCCCACACCACTACCCAAGACCAGTCCCACCTCCGCACACGT[CT]GACTCACTGTACACGGTGATGTTAGAGGAGCCTGTTATCTGGGAGCCATTGCAGTACACT
108227 I A TGGACGCCTCTGCGGAAGGTCCTCT
108227 P G A ATGACGTGGCAGACGGCAATGACATCCGAGY
108227 P A A CGCGCCGAGGAGCAATGACATCCGAGTY
108227 T G A TTCTACTCGGATGTCATTGCCGAGGACCTCCGCAGAGGCGTCCAGA
108227 T A A TTCTACTCGGATGTCATTGCTGAGGACCTCCGCAGAGGCGTCCAGA

FIGURE 129G

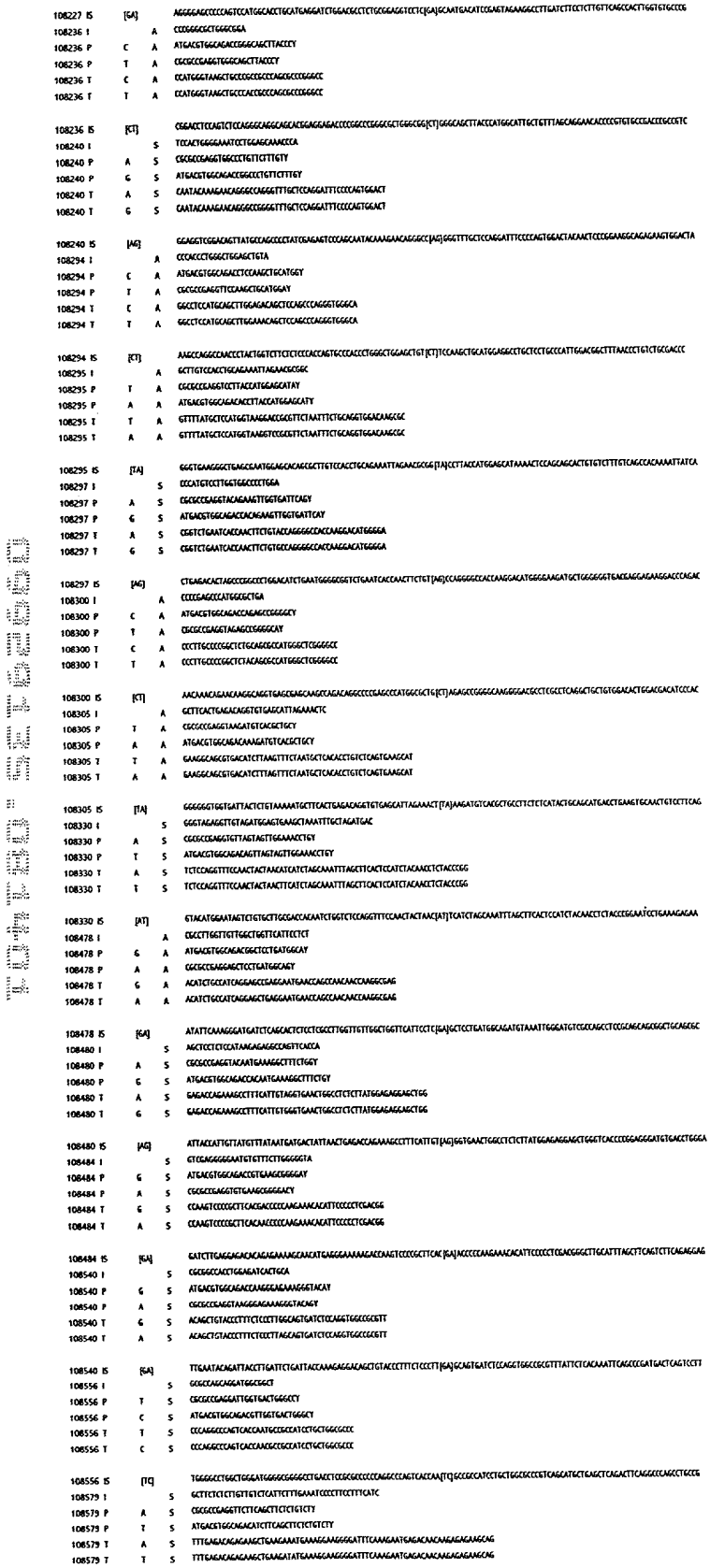

108227 IS [GA] AGGGGAGCCCCCAGTCCATGGCACCTGCATGAGGATCTGGAGCGCTCTCGCGGAGGTCCTC[GA]GCAATGACATCCGAGTAGAAGGCCTTGATCTTCCTCTTGTTCAGCCACTTGGTGTGCCCG
108236 I A CCCGGGCGCTGGGCGGA
108236 P C A ATGACGTGGCAGACCGGGCAGCTTACCCY
108236 P T A CGCGCCGAGGTGGGCAGCTTACCCT
108236 T C A CCATGGGTAAGCTGCCCGCCGCCCAGCGCCCGGGCC
108236 T T A CCATGGGTAAGCTGCCCACCGCCCAGCGCCCGGGCC
108236 IS [CT] CGGACTCCCAGTCTCCAGGGCAGGCAGCACGGAGGAGACCCCGGCCCGGGCGCTGGCCGG[CT]GGGCAGCTTACCCATGGCATTGCTGTTTAGCAGGAACACCCCGTGTGCCCACCCGCCGTC
108240 I S TCCACTGGGGAAATCCTGGAGCAAACCCA
108240 P A S CGCGCCGAGGTGGCCCTGTTCTTTGTY
108240 P G S ATGACGTGGCAGACCGGGCCTGTTCTTTGY
108240 T A S CAATACAAAGAACAGGGCCAGGGTTTGCTCCAGGATTTCCCCAGTGGACT
108240 T G S CAATACAAAGAACAGGGCCGGGGTTTGCTCCAGGATTTCCCCAGTGGACT
108240 IS [AG] GGAGGTCGGACAGTTATGCCAGCCCCTATCGAGAGTCCCAGCAATACAAAGAACAGGGCC[AG]GGGTTTGCTCCAGGATTTCCCCAGTGGACTACAACTCCCGGAAGGCAGAGAAGTGGACTA
108294 I A CCCACCCTGGGCTGGAGCTGTA
108294 P C A ATGACGTGGCAGACCTCCAAGCTGCATGGY
108294 P T A CGCGCCGAGGTTCCAAGCTGCATGGAY
108294 T C A GGCCTCCATGCAGCTTGGAGACAGCTCCAGCCCAGGGTGGGCA
108294 T T A GGCCTCCATGCAGCTTGGAAACAGCTCCAGCCCAGGGTGGGCA
108294 IS [CT] AAGCCAGGCCAACCCTACTGGTCTTCTCTCCCACCAGTGCCCACCCTGGGCTGGAGCTGT[CT]TCCAAGCTGCATGGAGGCCTGCTCCTGCCCATTGGACGGCTTTAACCCTGTCTGCGACCC
108295 I A GCTTGTCCACCTGCAGAAATTAGAACGCGGC
108295 P T A CGCGCCCAGGTCCTTACCATGGAGCATAY
108295 P A A ATGACGTGGCAGACCACAGAAGTTGGTGATTCAY
108295 T T A GTTTTATGCTCCATGGTAAGAACCGCGTTCTAATTTCTGCAGGTGGACAAGCGC
108295 T A A GTTTTATGCTCCATGGTAAGGTCCGCGTTCTAATTTCTGCAGGTGGACAAGCGC
108295 IS [TA] GGGTGAAGGGCTGAGCCAATGGAGCACAGCGCTTGTCCACCTGCAGAAATTAGAACGCGG[TA]CCTTACCATGGAGCATAAAACTCCAGCAGCACTGTGTCTTTGTCAGCCACAAAATTATCA
108297 I S CCCATGTCCTTGGTGGCCCCTGGA
108297 P A S CGCGCCGAGGTACAGAAGTTGGTGATTCAGY
108297 P G S ATGACGTGGCAGACCACAGAAGTTGGTGATTCAY
108297 T A S CGGTCTGAATCACCAACTTCTGTGCCAGGGGCCACCAAGGACATGGGGA
108297 T G S CGGTCTGAATCACCAACTTCTGTGCCAGGGGCCACCAAGGACATGGGGA
108297 IS [AG] CTGAGACACTAGCCCGCCCTGGACATCTGAATGGGGGGGTCTGAATCACCAACTTCTGT[AG]CCAGGGGCCACCAAGGACATGGGGAAAGATGCTGGGGGGTGACAGCAGAAGGACCCAGAC
108300 I A CCCCCAGCCCATGGCGCTGA
108300 P C A ATGACGTGGCAGACCAGAGCCGGGGCY
108300 P T A CGCGCCGAGGTAGAGCCGGGGCAY
108300 T C A CCCTTGCCCCGGCTCTGCAGCGCCATGGGCTCGGGGCC
108300 T T A CCCTTGCCCCGGCTCTACAGGCCCATGGGCTCGGGGCC
108300 IS [CT] AACAAACAGAACAAGGCAGCTGAGCGAGCAAGCCAGACAGGCCCCGAGCCCATGGCGCTG[CT]AGAGCCGGGGCAAGGGGACGCCTCGCCTCAGGCTGCTGTGGAACACTGCAGCAGCATCCCAC
108305 I A GCTTCACTGAGACAGGTGTGAGCATTAGAAACTC
108305 P T A CGCGCCGAGGTAACATGTCACGCTGCY
108305 P A A ATGACGTGGCAGACAAAGATGTCACGCTGCY
108305 T T A GAAGGCAGCGTGACATCTTAAGTTTCTAATGCTCACACCTGTCTCAGTGAAGCAT
108305 T A A GAAGGCAGCGTGACATCTTTAGTTTCTAATGCTCACACCTGTCTCAGTGAAGCAT
108305 IS [TA] GGGGGGTGGTGATTACTCTGTAAAAATGCTTCACTGAGACAGGTGTGAGCATTAGAAACT[TA]AAGATGTCACGCTGCCTCTCTCATACTGCAGCATGACCTGAAGTGCAACTGTCCTTCAG
108330 I S GGGTAGAGGTTGTAGATGGAGTGAAGCTAAATTTGCTAGATGAC
108330 P A S CGCGCCGAGGTGTTAGTAGTTGGAAACCTGY
108330 P T S ATGACGTGGCAGACAGTTAGTAGTTGGAAACCTGY
108330 T A S TCTCCAGGTTTCCAACTACTAACATCATCTAGCAAATTTAGCTCACTCCATCTACAACCTCTACCCGG
108330 T T S TCTCCAGGTTTCCAACTACTAACTTCATCTAGCAAATTTAGCTCACTCCATCTACAACCTCTACCCGG
108330 IS [AT] GTACATGGAATAGTCTGTGCTTGCGACCACAAATCTGGTCTCCAGGTTTCCAACTACTAAC[AT]TCATCTAGCAAATTTAGCTTCACTCCATCTACAACCTCTACCCGGAATCCTGAAAGAGAA
108478 I A CGCCTTGGTTGTTGGCTGGTTCATTCCTCT
108478 P G A ATGACGTGGCAGACGGCTCCTGATGGCAY
108478 P A A CGCGCCGAGGAGCTCCTGATGGCAGY
108478 T G A ACATCTGCCATCAGGAGCCGAGGAATGAACCAGCCAACAACCAAGGCGAG
108478 T A A ACATCTGCCATCAGGAGCTGAGGAATGAACCAGCCAACAACCAAGGCGAG
108478 IS [GA] ATATTCAAAGGGATGATCTCAGCACTCTCCTCGCCTTGGTTGTTGGCTGGTTCATTCCTC[GA]GCTCCTGATGGCAGATGTAAATTGGGATGTCGCCAGCCTCCGCAGCAGGGCTGCAGCGC
108480 I S AGCTCCTCTCCATAAGAGAGGCCAGTTCACCA
108480 P A S CGCGCCGAGGTACAATGAAAGGCTTTCTGGY
108480 P G S ATGACGTGGCAGACCACAATGAAAGGCTTTCTGY
108480 T A S GAGACCAGAAAGCCTTTCATTGTAGGTGAACTGGCCTCTCTTATGGAGAGGAGCTGG
108480 T G S GAGACCAGAAAGCCTTTCATTGTGGGTGAACTGGCCTCTCTTATGGAGAGGAGCTGG
108480 IS [AG] ATTACCATTGTTATGTTTATAATGATGACTATTAACTGAGACCAGAAAGCCTTTCATTGT[AG]GGTGAACTGGCCTCTCTTATGGAGAGGAGCTGGGTCACCCCGGAGGGATGTGACCTGGGA
108484 I S GTCGAGGGGGAATGTGTTTCTTGGGGGTA
108484 P G S ATGACGTGGCAGACCGTGAAGCGGGGAY
108484 P A S CGCGCCGAGGTGTGAAGCGGGGACY
108484 T G S CCAAGTCCCCGCTTCACGACCCCCAAGAAACACATTCCCCCTCGACGG
108484 T A S CCAAGTCCCCGCTTCACAACCCCCAAGAAACACATTCCCCCTCGACGG
108484 IS [GA] GATCTTGAGGAGACACAGAGAAAAGCAACATGAGGGAAAAAGACCAAGTCCCCGCTTCAC[GA]ACCCCAAGAAACACATTCCCCCTCGACGGGCTTGCATTTAGCTTCAGTCTTCAGAGGAG
108540 I S CGCGGCCACCTGGAGATCACTGCA
108540 P G S ATGACGTGGCAGACCAAGGCAGAAAGGGTACAT
108540 P A S CGCGCCGAGGTAAGGCAGAAAGGGTACAGY
108540 T G S ACAGCTGTACCCTTTCTCCCTTGGCAGTGATCTCCAGGTGGCCCGCTT
108540 T A S ACAGCTGTACCCTTTCTCCCTTAGCAGTGATCTCCAGGTGGCCCGCTT
108540 IS [GA] TTGAATACAGATTACCTTGATTCTGATTACCAAAGAGGACAGCTGTACCCTTTCTCCCTT[GA]GCAGTGATCTCCAGGTGGCCCGCGTTTATTCTCACAAATTCAGCCCGATGACTCAGTCCTT
108556 I S GCGCCAGCAGGATGGCGGCT
108556 P T S CGCGCCGAGGATTGGTGACTGGGCCY
108556 P C S ATGACGTGGCAGACGTTGGTGACTGGGCY
108556 T T S CCCAGGCCCNGTCACCAATGCCGCCATCCTGCTGGCGCCC
108556 T C S CCCAGGCCCAGTCACCAACGCCGCCATCCTGCTGGCGCCC
108556 IS [TC] TGGGGCCTGGCTGGGATGGGGCGGGGCCTGACCTCCGCGCCCCCAGGCCCAGTCACCAA[TC]GCCGCCATCCTGCTGGCGCCCGTCAGCATGCTGAGCTCAGACTTCAGGCCCAGCCTGCCG
108579 I S GCTTCTCTCTTGTTGTCTCATTCTTTGAAATCCCCTTCCTTTCATC
108579 P A S CGCGCCGAGGTTCTTCAGCTTCTCTGTCTY
108579 T A S TTTGAGACAGAGAAGCTGAAGAAATGAAAGGAAGGGGATTTCAAAGAATGAGACAACAAGAGAGAAGCAG
108579 T T S TTTGAGACAGAGAAGCTGAAGATATGAAAGGAAGGGGATTTCAAAGAATGAGACAACAAGAGAGAAGCAG

FIGURE 129G

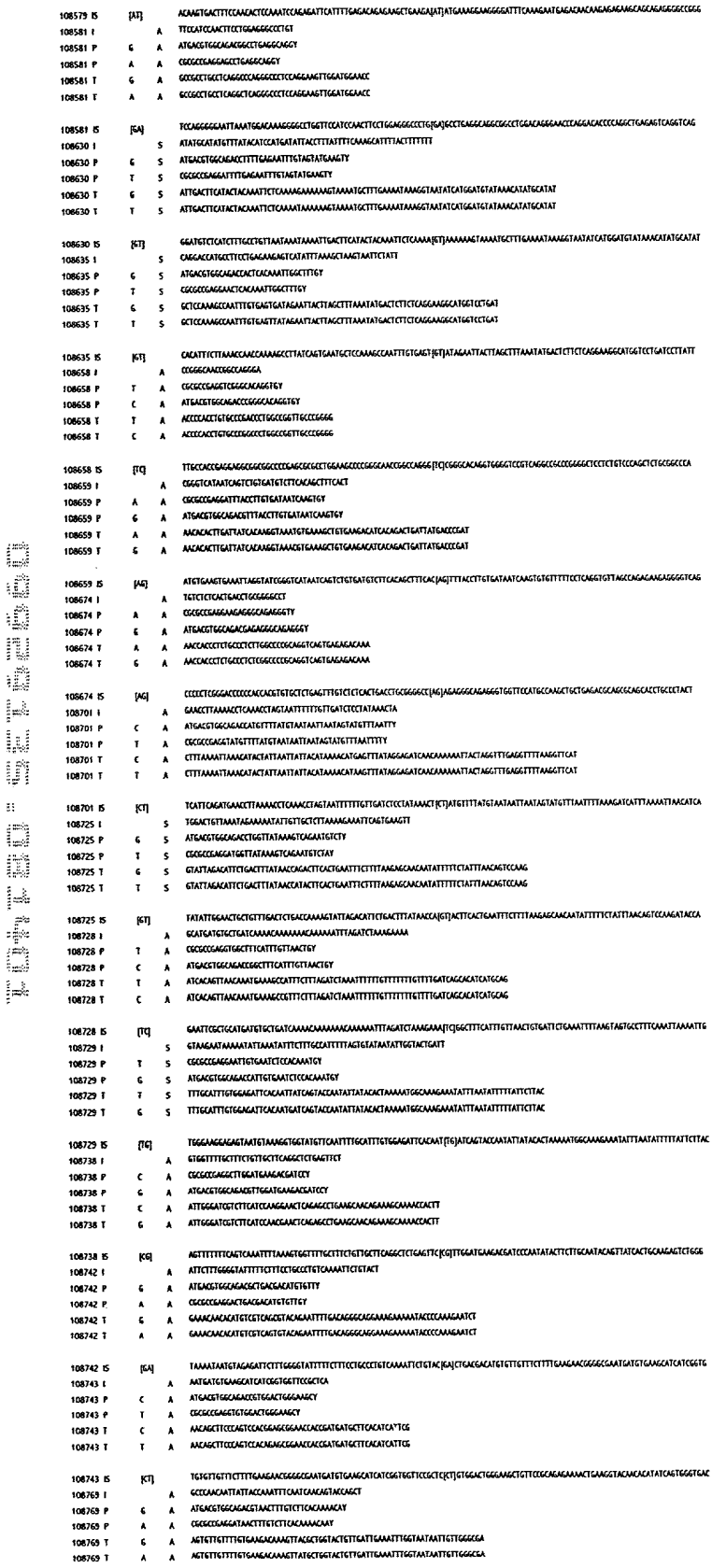


FIGURE 129G

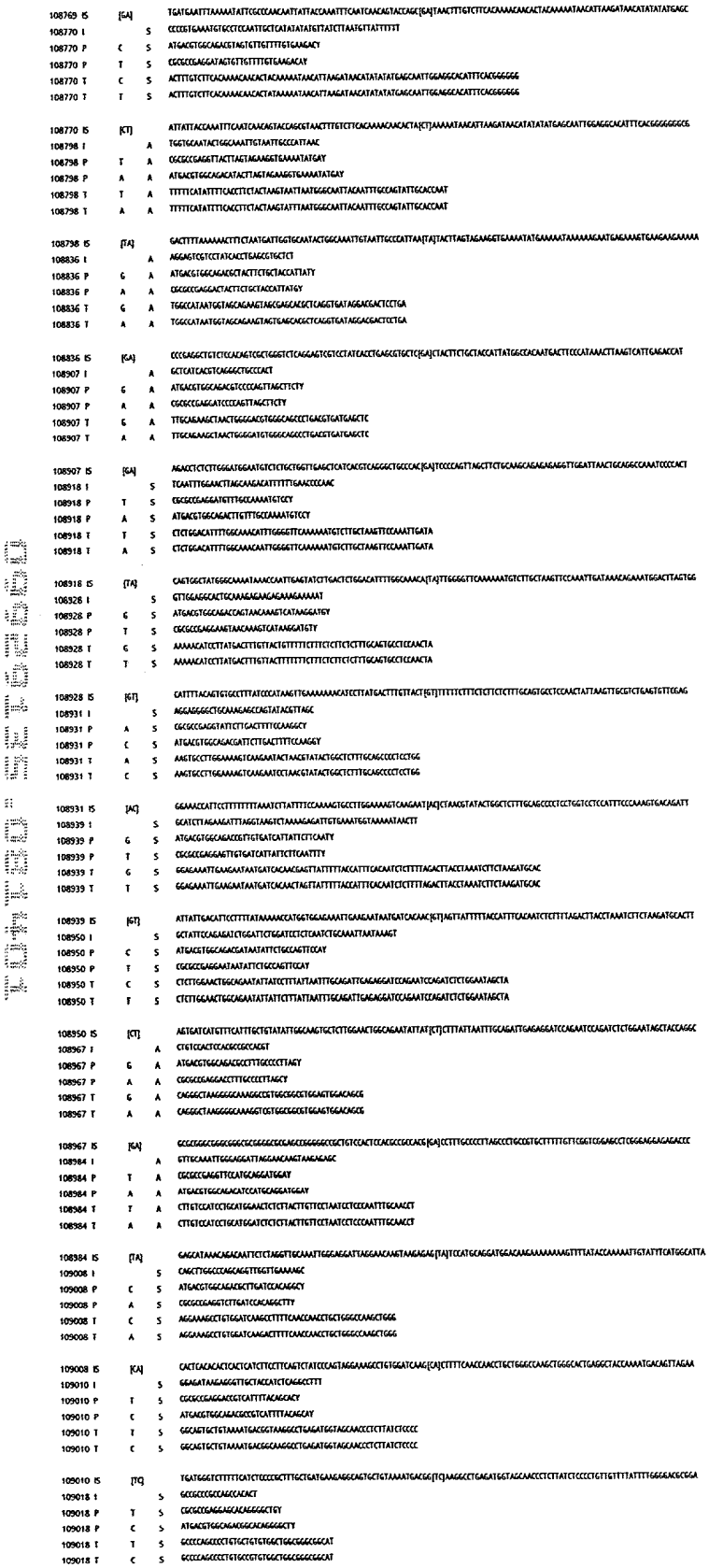

108769 IS [GA] TGATGAATTTAAAAATATTCGCCCAACAATTATTACCAAATTTCAATCAACAGTACCAGC[GA]TAACTTTGTCTTCACAAAACAACACTACAAAAATAACATTAAGATAACATATATATGAGC
108770 I S CCCCGTGAAATGTGCCTCCAATTGCTCATATATATGTTATCTTAATGTTATTTTTT
108770 P C S ATGACGTGGCAGACGTAGTGTTGTTTTGTGAAGACY
108770 P T S CGCGCCGAGGATAGTGTTGTTTTGTGAAGACAY
108770 T C S ACTTTGTCTTCACAAAACAACACTATAAAAATAACATTAAGATAACATATATATGAGCAATTGGAGGCACATTTCACGGGGGGG
108770 T T S ACTTTGTCTTCACAAAACAACACTATAAAAATAACATTAAGATAACATATATATGAGCAATTGGAGGCACATTTCACGGGGGGG
108770 IS [CT] ATTATTACCAAATTTCAATCAACAGTACCAGCGTAACTTTGTCTTCACAAAACAACACTA[CT]AAAAATAACATTAAGATAACATATATATGAGCAATTGGAGGCACATTTCACGGGGGGGCG
108798 I A TGGTGCAATACTGGCAAATTGTAATTGCCCATTAAC
108798 P T A CGCGCCGAGGTTACTTAGTAGAAGGTGAAAATATGAY
108798 P A A ATGACGTGGCAGACATACTTAGTAGAAGGTGAAAATATGAY
108798 T T A TTTTTCATATTTTCAACTTCTACTAAGTAATTAATGGGCAATTACAATTTGCCAGTATTGCACCAAT
108798 T A A TTTTTCATATTTTCAACTTCTACTAAGTATTTAATGGGCAATTACAATTTGCCAGTATTGCACCAAT
108798 IS [TA] GACTTTTAAAAAACTTTCTAATGATTGGTGCAATACTGGCAAATTGTAATTGCCCATTAA[TA]TACTTAGTAGAAGGTGAAAATATGAAAAATAAAAAAGAATGAGAAAGTGAAGAAGAAAAA
108836 I A AGGAGTCGTCCTATCACCTGAGCGTGCTCT
108836 P G A ATGACGTGGCAGACGCTACTTCTGCTACCATTATY
108836 P A A CGCGCCGAGGACTACTTCTGCTACCATTATGY
108836 T G A TGGCCATAATGGTAGCAGAAGTAGCGAGCACGCTCAGGTGATAGGACGACTCCTGA
108836 T A A TGGCCATAATGGTAGCAGAAGTAGTGAGCACGCTCAGGTGATAGGACGACTCCTGA
108836 IS [GA] CCCGAGGCTGTCTCCACAGTCGCTGGGTCTCAGGAGTCGTCCTATCACCTGAGCGTGCTC[GA]CTACTTCTGCTACCATTATGGCCACAATGACTTCCCATAAACTTAAGTCATTGAGACCAT
108907 I A GCTCATCACGTCAGGGCTGCCCACT
108907 P G A ATGACGTGGCAGACGTCCCCAGTTAGCTTCTY
108907 P A A CGCGCCGAGGATCCCCAGTTAGCTTCTY
108907 T G A TTGCAGAAGCTAACTGGGGACGTGGGCAGCCCTGAGGTGATGAGCTC
108907 T A A TTGCAGAAGCTAACTGGGGATGTGGGCAGCCCTGAGGTGATGAGCTC
108907 IS [GA] AGACCTCTCTTGGGATGGAATGTCTCTGCTGGTTGAGCTCATCACGTCAGGGCTGCCCAC[GA]TCCCCAGTTAGCTTCTGCAAGCAGAGAGAGGTTGATTAACTGCAGGCCAAATCCCCACT
108918 I S TCAATTTGGAACTTAGCAAGACATTTTTTGAACCCCAAC
108918 P T S CGCGCCGAGGATGTTTGCCAAAATGTCCY
108918 P A S ATGACGTGGCAGACTTGTTTGCCAAAATGTCCY
108918 T T S CTCTGGACATTTTGGCAAACAATTGGGGTTCAAAAATGTCTTGCTAAGTTCCAAATTGATA
108918 T A S CTCTGGACATTTTGGCAAACAATTGGGGTTCAAAAATGTCTTGCTAAGTTCCAAATTGATA
108918 IS [TA] CAGTGGCTATGGGCAAAATAAACCAATTGAGTATCTTGACTCTGGACATTTTGGCAAACA[TA]TTGGGGTTCAAAAAATGTCTTGCTAAGTTCCAAATTGATAAACAGAAATGGACTTAGTGG
108928 I S GTTGGAGGCACTCCAAGAGAGAGAGAAGAAAAAT
108928 P G S ATGACGTGGCAGACCAGTAACAAAGTCATAAGGATGY
108928 P T S CGCGCCGAGGAAGTAACAAAGTCATAAGGATGTY
108928 T G S AAAAACATCCTTATGACTTGTTACTGTTTTTCTTTCTCTTCTCTTTGCAGTGCCTCCAACTA
108928 T T S AAAAACATCCTTATGACTTGTTACTTTTTTTCTTTCTCTTCTCTTGCAGTGCCTCCAACTA
108928 IS [GT] CATTTTACAGTGTGCCTTTATCCCATAAGTTGAAAAAAACATCCTTATGACTTTGTTACT[GT]TTTTTCTTTCTCTTCTTTGCAGTGCCTCCAACTATTAAGTTGCGTCTGAGTGTTCGAG
108931 I S AGGAGGGGCTGCAAAGAGCCAGTATACGTTAGC
108931 P A S CGCGCCGAGGTATTCTTGACTTTTCCAAGGCY
108931 P C S ATGACGTGGCAGACGATTCTTGACTTTTCCAAGGY
108931 T A S AAGTGCCTTGGAAAAGTCAAGAATACTAACGTATACTGGCTCTTTGCAGCCCCTCCTGG
108931 T C S AAGTGCCTTGGAAAAGTCAAGAATCCTAACGTATACTGGCTCTTTGCAGCCCCTCCTGG
108931 IS [AC] GGAAACCATTCCTTTTTTTTAAATCTTATTTTCCAAAAGTGCCTTGGAAAAGTCAAGAAT[AC]CTAACGTATACTGGCTCTTTGCAGCCCCTCCTGGTCCTCCATTTCCCAAAGTGACAGATT
108939 I S GCATCTTAGAAGATTTAGGTAAGTCTAAAAGACGATTGTGAAATGGTAAAAATAACTT
108939 P G S ATGACGTGGCAGACCGTTGTGATCATTATTCTTCAATY
108939 P T S CGCGCCGAGGAGTTGTGATCATTATTCTTCAATTTY
108939 T G S GGACAAATTGAAGAATAATGATCACAACGAGTTATTTTTTACCATTTCACAATCTCTTTTAGACTTACCTAAATCTTCTAAGATGCAC
108939 T T S GGAGAAATTGAAGAATAATGATCACAACTAGTTATTTTTACCATTTCACAATCTCTTTTAGACTTACCTAAATCTTCTAAGATGCAC
108939 IS [GT] ATTATTGACATTCCTTTTATAAAAACCATGGTGGAGAAATTGAAGAATAATGATCACAAC[GT]AGTTATTTTTACCATTTCACAATCTCTTTTAGACTTACCTAAATCTTCTAAGATGCACTT
108950 I S GCTATTCCAGAGATCTGGATTCTGGATCCTCTCAATCTGCAAATTAATAAAGT
108950 P C S ATGACGTGGCAGACGATAATATTCTGCCAGTTCCAY
108950 P T S CGCGCCGAGGAATAATATTCTGCCAGTTCCAY
108950 T C S CTCTTGGAACTGGCAGAATATTATCCTTTATTAATTTGCAGATTGAGAGGATCCAGAATCCAGATCTCTGGAATAGCTA
108950 T T S CTCTTGGAACTGGCAGAATATTATTCTTTATTAATTTGCAGATTGAGAGGATCCAGAATCCAGATCTCTGGAATAGCTA
108950 IS [CT] AGTGATCATGTTTCATTTGCTGTATATTGGCAAGTGCTCTTGGAACTGGCAGAATATTAT[CT]CTTTATTAATTTGCAGATTGAGAGGATCCAGAATCCAGATCTCTGGAATAGCTACCAGGC
108967 I A CTGTCCACTCCACGCGCCACGT
108967 P G A ATGACGTGGCAGACGCCTTGCCCCTTAGY
108967 P A A CGCGCCGAGGACCTTTGCCCCTTAGCY
108967 T G A CAGGGCTAAGGGGCAAAGGCCGTGGCGGCCTGGAGTGGACAGCG
108967 T A A CAGGGCTAAGGGGCAAAGGTCGTGGCGGCCTGGAGTGGACAGCG
108967 IS [GA] GCGCGGGCGGGCGGGCGCGGGGCGCGAGCCGGGGGCCGCTGTCCACTCCACGCCGCCACG[GA]CCTTTGCCCCTTAGCCCTGCCGTGCTTTTTGTTCGGTCGGAGCCTCGGCAGGAGAGACCC
108984 I A GTTGCAAATTGGGAGGATTAGGAACAAGTAAGAGAGC
108984 P T A CGCGCCGAGGTTCCATGCAGGATGGAY
108984 P A A ATGACGTGGCAGACATCCATGCAGGATGGAY
108984 T T A CTTGTCCATCCTGCATGGAACTCTCTTACTTGTTCCTAATCCTCCCAATTTGCAACCT
108984 T A A CTTGTCCATCCTGCATGGATCTCTCTTACTTGTTCCTAATCCTCCCAATTTGCAACCT
108984 IS [TA] GAGCATAAACAGACAATTCTCTAGGTTGCAAATTGGGAGGATTAGGAACAAGTAAGAGAG[TA]TCCATGCAGGATGCAGCAAGAAAAAAAAGTTTTATACCAAAAATTGTATTTCATGGCATTA
109008 I S CAGCTTGGCCCAGCAGGTTGGTTGAAAAGC
109008 P C S ATGACGTGGCAGACGCTTGATCCACAGGCY
109008 P A S CGCGCCGAGGTCTTGATCCACAGGCTTY
109008 T C S AGGAAAGCCTGTGGATCAAGCCTTTTCAACCAACCTGCTGGGCCAAGCTGGG
109008 T A S AGGAAAGCCTGTGGATCAAGACTTTTCAACCAACCTGCTGGGCCAAGCTGGG
109008 IS [CA] CACTCACACACTCACTCATCTTCCTTCAGTCTATCCCAGTAGGAAAGCCTGTGGATCAAG[CA]CTTTTCAACCAACCTGCTGGGCCAAGCTGGGCACTGAGGCTACCAAAATGACAGTTAGAA
109010 I S GGAGATAAGAGGGTTGCTACCATCTCAGGCCTTT
109010 P T S CGCGCCGAGGAGCCGTCATTTTACAGCACY
109010 P C S ATGACGTGGCAGACGCCGTCATTTTACAGCAY
109010 T T S GGCAGTGCTGTAAAATGACGGTAAGGCCTGAGATGGTAGCAACCCTCTTATCTCCCC
109010 T C S GGCAGTGCTGTAAAATGACGGCAAGGCCTGAGATGGTAGCAACCCTCTTATCTCCCC
109010 IS [TC] TGATGGGCTCTTTTCATCTCCCCGCTTTGCTGATGAAGAGGCAGTGCTGTAAAATGACGG[TC]AAGGCCTGAGATGGTAGCAACCCTCTTATCTCCCCTGTTGTTTTATTTTGGGGACGCGGA
109018 I S GCCGCCCGCCAGCCACACT
109018 P T S CGCGCCGAGGAGCACAGGGGCTGY
109018 P C S ATGACGTGGCAGACGGCACAGGGGCTY
109018 T T S GCCCCAGCCCCTGTGCTGTGTGGCTGGCGGGCGGCAT
109018 T C S GCCCCAGCCCCTGTGCCGTGTGGCTGGCGGGCGGCAT

FIGURE 129G

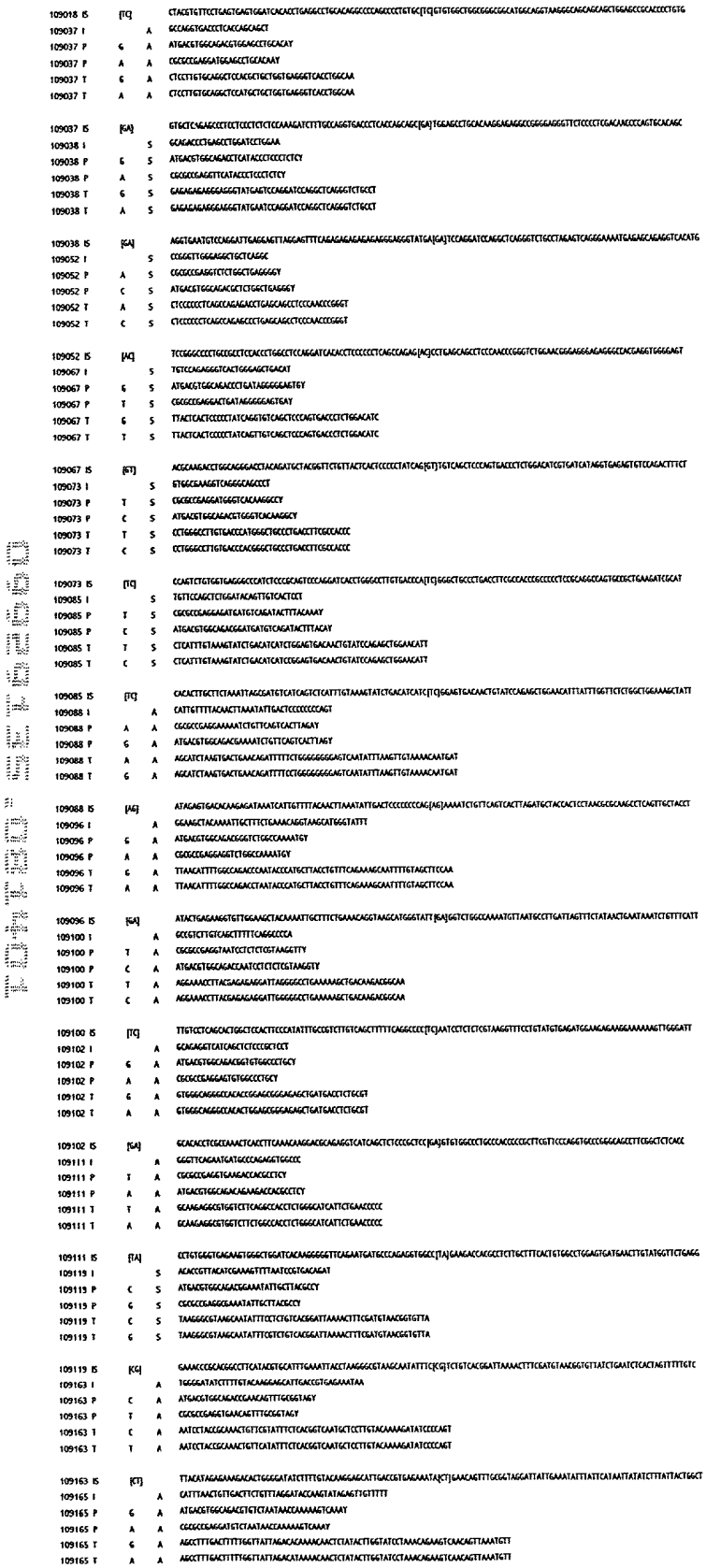
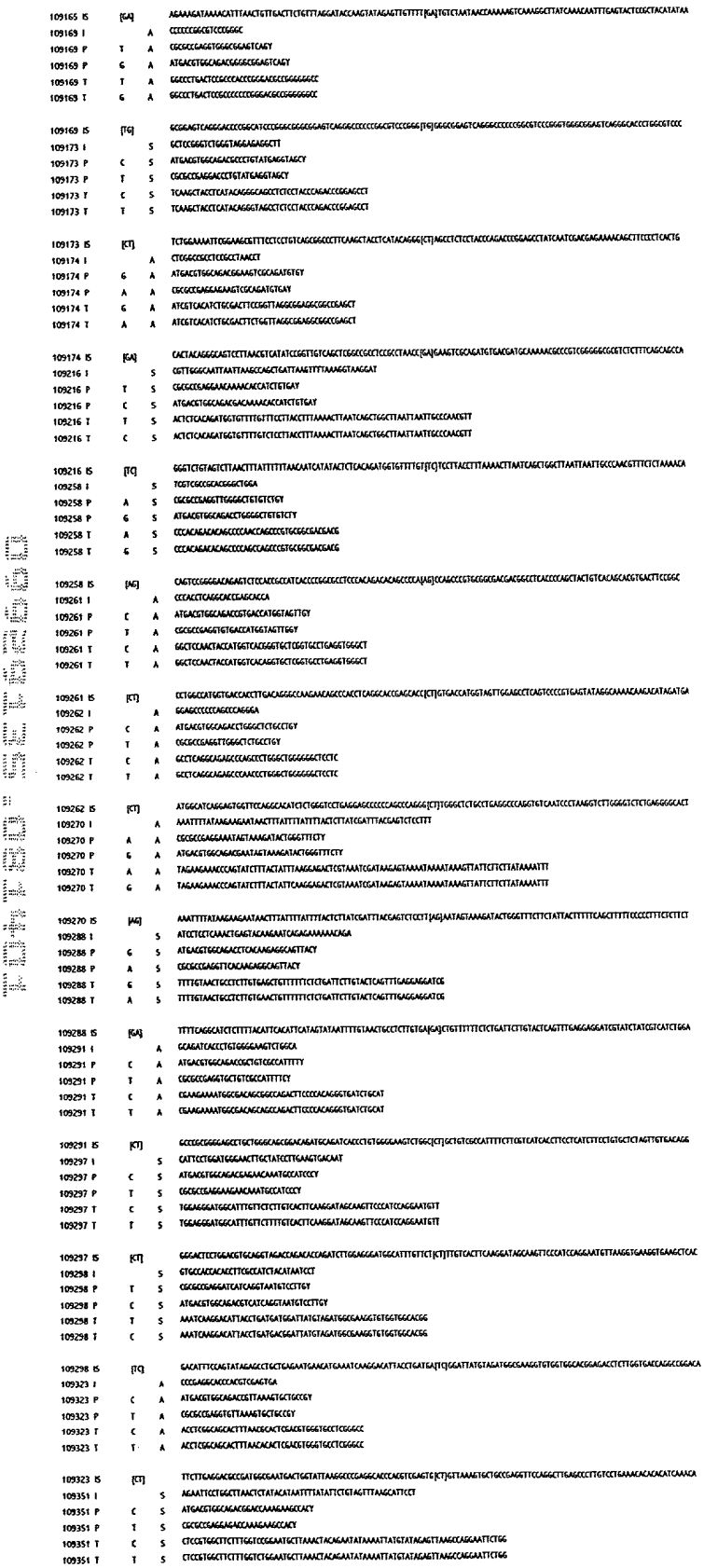
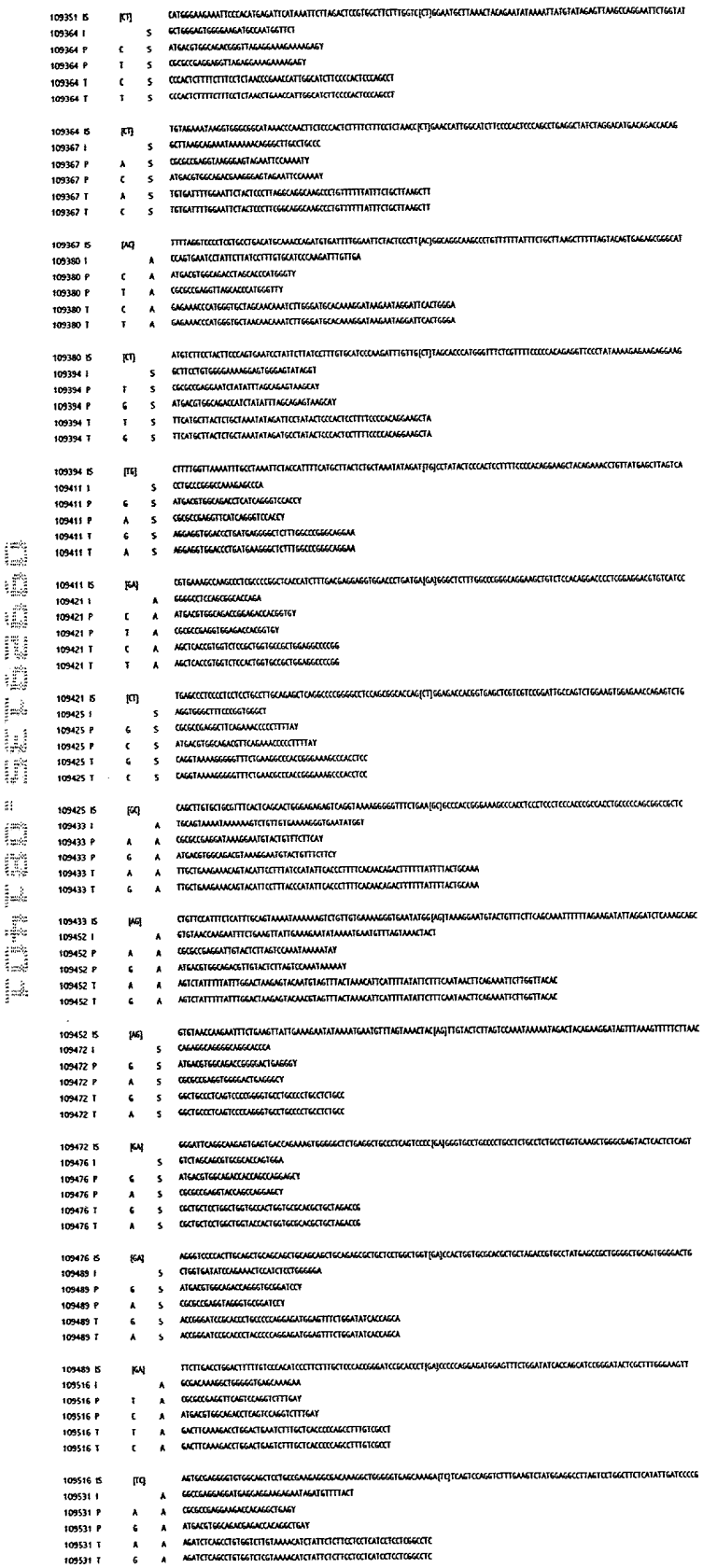
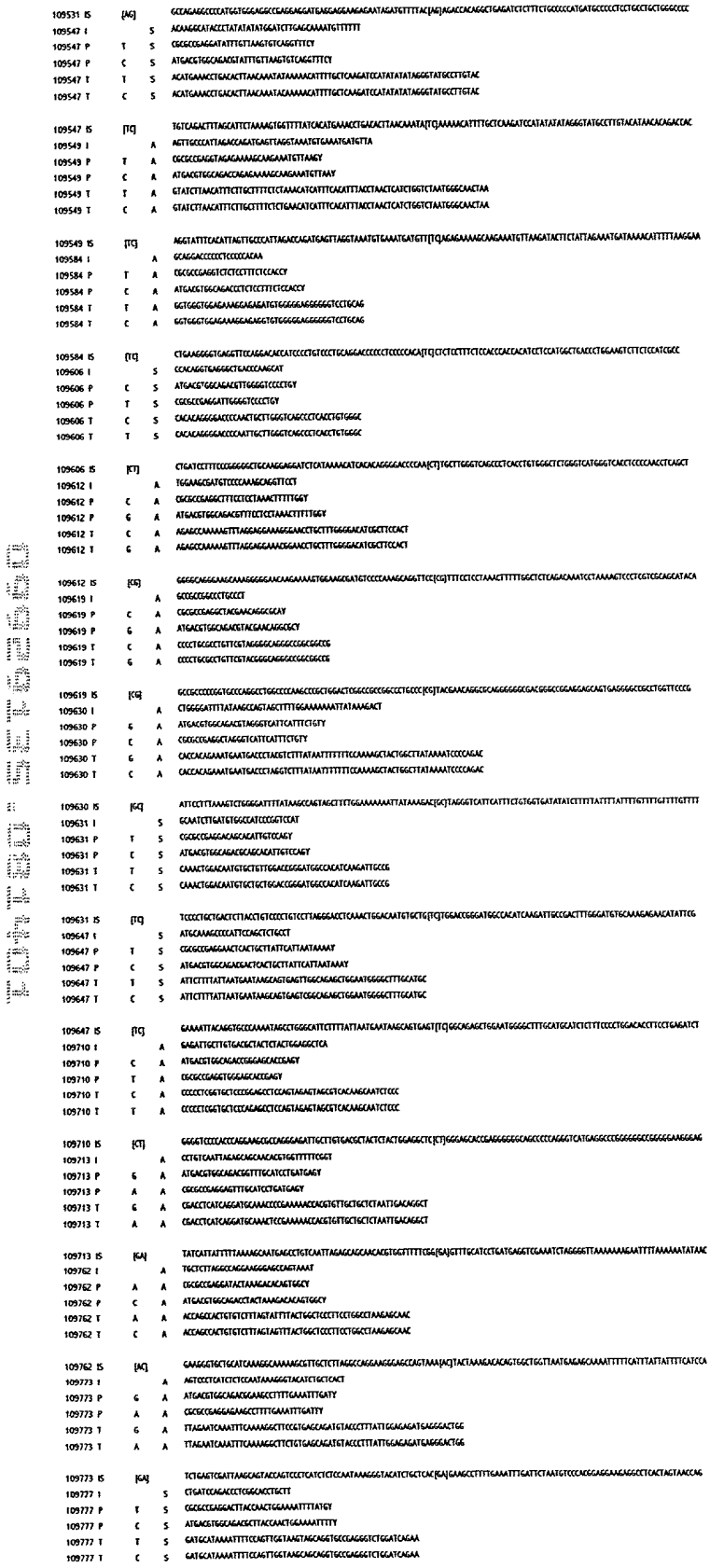
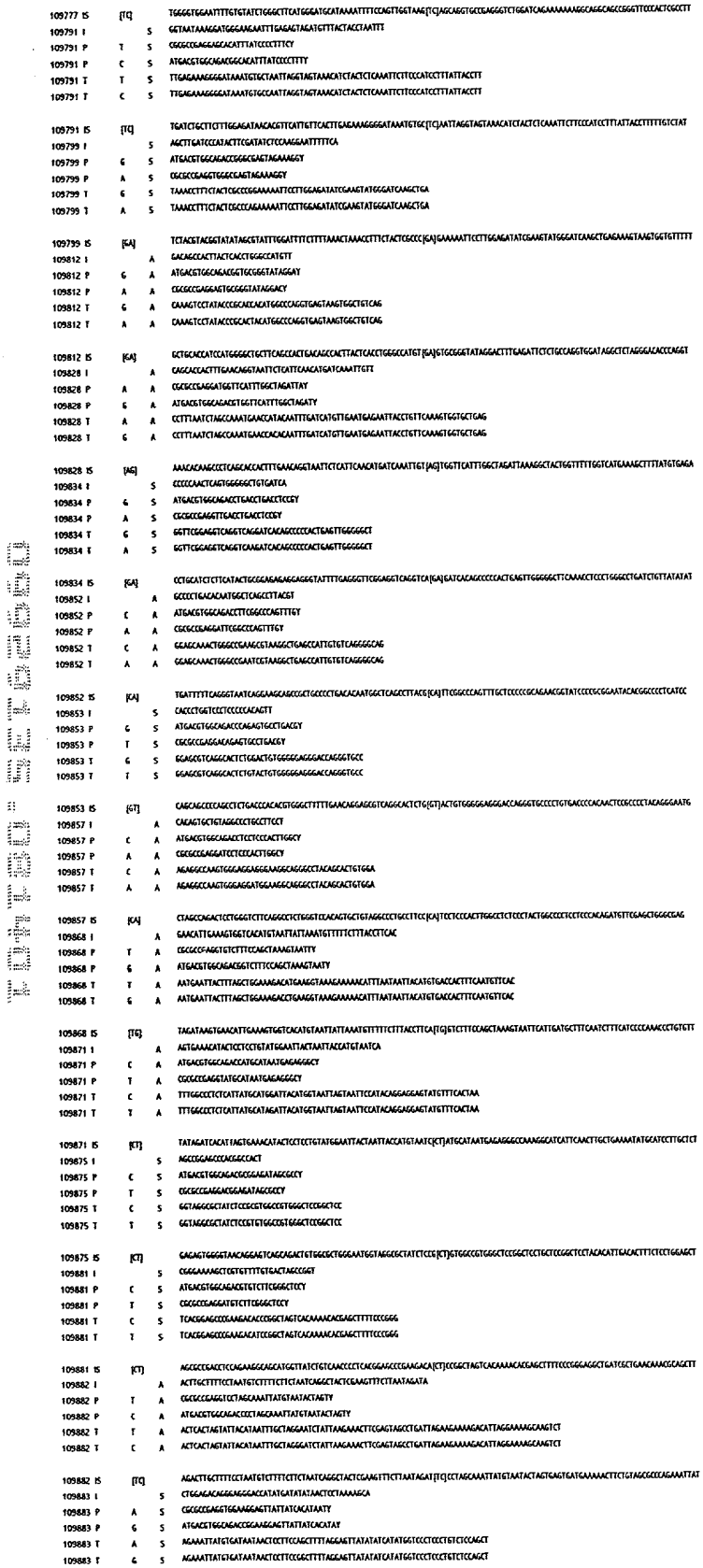

109018 IS [TC] CTACGTGTTCCTGAGTGAGTGGATCACACCTGAGGCCTGCACAGGCCCCAGCCCCTGTGC[TC]GTGTGGCTGCCGGGCGGCATGGCAGGTAAGGGCAGCAGCAGCTGGAGCCCGCACCCCTGTG
109037 I A GCCAGGTGACCCTCACCAGCAGCT
109037 P G A ATGACGTGGCAGACGTGGAGCCTGCACAY
109037 P A A CGCGCCGAGGATGGAGCCTGCACAAY
109037 T G A CTCCTTGTGCAGGCTCCACGCTGCTGGTGAGGGTCACCTGGCAA
109037 T A A CTCCTTGTGCAGGCTCCATGCTGCTGGTGAGGGTCACCTGGCAA
109037 IS [GA] GTGCTCCAGACCCTCCTCCCTCTCTCCAAAGATCTTTGCCAGGTGACCCTCACCAGCAGC[GA]TGGAGCCTGCACAAGGAGAGGCCGGGGAGGGTTCTCCCCCTCGACAACCCAGTGCACAGC
109038 I S GCACACCCTGAGCCTGGATCCTGGAA
109038 P G S ATGACGTGGCAGACCTCATACCCTCCCTCTCY
109038 P A S CGCGCCGAGGTTCATACCCTCCCTCTCY
109038 T G S GAGAGAGAGGGAGGGTATGAGTCCAGGATCCAGGCTCAGGGTCTGCCT
109038 T A S GAGAGAGAGGGAGGGTATGAATCCAGGATCCAGGCTCAGGGTCTGCCT
109038 IS [GA] AGGTGAATGTCCAGGATTGAGGAGTTAGGAGTTTCAGAGAGAGAGAGAGGGAGGGTATGA[GA]TCCAGGATCCAGGCTCAGGGTCTGCCTAGAGTCAGGGAAAATGAGAGCAGAGGTCACATG
109052 I S CCGGCTTGGGAGGCTGCTCAGGC
109052 P A S CGCGCCGAGGTCTCTGGCTGAGGGGY
109052 P C S ATGACGTGGCAGACGCTCTGGCTGAGGGY
109052 T A S CTCCCCCCTCAGCCAGAGACCTGAGCAGCCTCCCAACCCGGGT
109052 T C S CTCCCCCCTCAGCCAGAGCCCTGAGCAGCCTCCCAACCCGGGT
109052 IS [AC] TCCGGGCCCCTGCCGCCTCCACCCTGGCCTCCAGGATCACACCTCCCCCCTCAGCCAGAG[AC]CCTGAGCAGCCTCCCAACCCGGGTCTGGAACGGGAGGGAGAGGGCCACGAGGTGGGGAGT
109067 I S TGTCCAGAGGGTCACTGGGAGCTGACAT
109067 P G S ATGACGTGGCAGACCCTGATAGGGGGAGTGY
109067 P T S CGCGCCGAGGACTGATAGGGGGAGTGAY
109067 T G S TTACTCACTCCCCCTATCAGGTGTCAGCTCCCAGTGACCCTCTGGACATC
109067 T T S TTACTCACTCCCCCTATCAGTTGTCAGCTCCCAGTGACCCTCTGGACATC
109067 IS [GT] ACGCAAGACCTGGCAGGGACCCTACAGATGCTACGGTTCTGTTACTCACTCCCCCTATCAG[GT]TGTCAGCTCCCAGTGACCCTCTGGACATCGTGATCATAGGTGAGAGTGTCCAGACTTTCT
109073 I S GTGGCGAAGGTCAGGGCAGCCCT
109073 P T S CGCGCCGAGGATGGGTCACAAGGCCY
109073 P C S ATGACGTGGCAGACGTGGGTCACAGGCY
109073 T T S CCTGGGCCTTGTGACCCATGGGCTGCCCTGACCTTCGCCACCC
109073 T C S CCTGGGCCTTGTGACCCACGGGCTGCCCTGACCTTCGCCACCC
109073 IS [TC] CCAGTCTGTGGTGAGGGCCCATCTCCCGCAGTCCCAGGATCACCTGGGCCTTGTGACCCA[TC]GGGCTGCCCTGACCTTCGCCACCCGCCCCCTCCGCAGGCCAGTGCCGCTGAAGATCGCAT
109085 I S TGTTCCAGCTCTGGATACAGTTGTCACTCCT
109085 P T S CGCGCCGAGGAGATGATGTCAGATACTTTACAAAY
109085 P C S ATGACGTGGCAGACGGATGATGTCAGATACTTTACAY
109085 T T S CTCATTTGTAAAGTATCTGACATCATCTGGAGTGACAACTGTATCCAGAGCTGGAACATT
109085 T C S CTCATTTGTAAAGTATCTGACATCATCGGGAGTGACAACTGTATCCAGAGCTGGAACATT
109085 IS [TC] CACACTTGCTTCTAAATTAGCGATGTCATCAGTCTCATTTGTAAAGTATCTGACATCATC[TC]GGAGTGACAACTGTATCCAGAGCTGGAACATTTATTTGGTTCTCTGGCTGGAAAGCTATT
109088 I A CATTGTTTTACAACTTAAATATTGACTCCCCCCCCAGT
109088 P A A CGCGCCGAGGAAAAATCTGTTCAGTCACTTAGAY
109088 P G A ATGACGTGGCAGACGAAAATCTGTTCAGTCACTTAGY
109088 T A A AGCATCTAAGTGACTGAACAGATTTTTCTGGGGGGGGAGTCAATATTTAAGTTGTAAAACAATGAT
109088 T G A AGCATCTAAGTGACTGAACAGATTTTCCTGGGGGGGGAGTCAATATTTAAGTTGTAAAACAATGAT
109088 IS [AG] ATAGAGTGACACAAGAGATAAATCATTGTTTTACAACTTAAATATTGACTCCCCCCCCAG[AG]AAAATCTGTTCAGTCACTTAGATGCTACCACTCCTAACGCGCAAGCCTCAGTTGCTACCT
109096 I A GGAAGCTACAAAATTGCTTTCTGAAACAGGTAAGCATGGGTATTT
109096 P G A ATGACGTGGCAGACGGGTCTGGCCAAAATGY
109096 P A A CGCGCCGAGGAGGTCTGGCCAAAATGY
109096 T G A TTAACATTTTGGCCAGACCCAATACCCATGCTTACCTGTTTCAGAAAGCAATTTTGTAGCTTCCAA
109096 T A A TTAACATTTTGGCCAGACCTAATACCCATGCTTACCTGTTTCAGAAAGCAATTTTGTAGCTTCCAA
109096 IS [GA] ATACTGAGAAGGTGTTGGAAGCTACAAAATTGCTTTCTGAAACAGGTAAGCATGGGTATT[GA]GGTCTGGCCAAAATGTTAATGCCTTGATTAGTTTCTATAACTGAATAAATCTGTTTCATT
109100 I A GCCGTCTTGTCAGCTTTTTCAGGCCCCA
109100 P T A CGCGCCGAGGTAATCCTCTCTCGTAAGGTTY
109100 P C A ATGACGTGGCAGACCAATCCTCTCTCGTAAGGTY
109100 T T A AGGAAACCTTACGAGAGAGGATTAGGGGCCTGAAAAAGCTGACAAGACGGCAA
109100 T C A AGGAAACCTTACGAGAGAGGATTGGGGGCCTGAAAAAGCTGACAAGACGGCAA
109100 IS [TC] TTGTGCTCAGCACTGGCTCCACTTCCCATATTTGCCGTCTTGTCAGCTTTTTCAGGCCCC[TC]AATCCTCTCTCGTAAGGTTTCCTGTATGTGAGATGGAAGAGAAGGAAAAAAGTTGGGATT
109102 I A GCAGAGGTCATCAGCTCTCCCGCTCCT
109102 P G A ATGACGTGGCAGACGGTGTGGCCCTGCY
109102 P A A CGCGCCGAGGAGTGTGGCCCTGCY
109102 T G A GTGGGCAGGGCCACACCGGAGCGGGAGAGCTGATGACCTCTGCGT
109102 T A A GTGGGCAGGGCCACACTGGAGCGGGAGAGCTGATGACCTCTGCGT
109102 IS [GA] GCACACCTCGCCAAACTCACCTTCAAACAAGGACGCAGAGGTCATCAGCTCTCCCGCTCC[GA]GTGTGGCCCTGCCCACCCCCCGCTTCGTTCCCAGGTGCCCGGGCAGCCTTCGGCTCTCACC
109111 I A GGGTTCAGAATGATGCCCAGAGGTGGCCC
109111 P T A CGCGCCGAGGTGAAGACCACGCCTCY
109111 P A A ATGACGTGGCAGACAGAAGACCACGCCTCY
109111 T T A GCAAGAGGCGTGGTCTCTCAGCCACCTCTGGGCATCATTCTGAACCCCC
109111 T A A GCAAGAGGCGTGGTCTTCTGGCCACCTCTGGGCATCATTCTGAACCCCC
109111 IS [TA] CCTGTGGGTGAGAAGTGGGCTGGATCACAAGGGGGTTCAGAATGATGCCCAGAGGTGGCC[TA]GAAGACCACGCCTCTTGCTTTCACTGTGGCCTGGAGTGATGAACTTGTATGGTTCTGAGG
109119 I S ACACCGTTACATCGAAAGTTTTAATCCGTGACAGAT
109119 P C S ATGACGTGGCAGACGGAAATATTGCTTACGCCY
109119 P G S CGCGCCGAGGCGAAATATTGCTTACGCCY
109119 T C S TAAGGGCGTAAGCAATATTTCCTCTGTCACGGATTAAAACTTCGATGTAACGGTGTTA
109119 T G S TAAGGGCGTAAGCAATATTTCGTCTGTCACGGATTAAAACTTCGATGTAACGGTGTTA
109119 IS [CG] GAAACCCGCACGGCCTTCATACGTGCATTTGAAATTACCTAAGGGCGTAAGCAATATTTC[CG]TCTGTCACGGATTAAAACTTTCGATGTAACGGTGTTATCTGAATCTCACTAGTTTTTGTC
109163 I A TGGGGATATCTTTTGTACAAGGAGCATTGACCGTGAGAAATAA
109163 P C A ATGACGTGGCAGACCGAACAGTTGCGGTAGY
109163 P T A CGCGCCGAGGTGAACAGTTTGCGGTAGY
109163 T C A AATCCTACCGCAAACTGTTCGTATTTCTCACGGTCAATGCTCCTTGTACAAAAGATATCCCCAGT
109163 T T A AATCCTACCGCAAACTGTTCATATTTCTCACGGTCAATGCTCCTTGTACAAAAGATATCCCCAGT
109163 IS [CT] TTACATAGAGAAAGACACTGGGGATATCTTTTGTACAAGGAGCATTGACCGTGAGAAATA[CT]GAACAGTTTGCGGTAGGATTATTGAAATATTTATTCATAATTATATCTTTATTACTGGCT
109165 I A CATTTAACTGTTGACTTCTGTTTAGGATACCAAGTATAGAGTTGTTTTT
109165 P G A ATGACGTGGCAGACGTGTCTAATAACCAAAAAGTCAAAY
109165 P A A CGCGCCGAGGATGTCTAATAACCAAAAAGTCAAAY
109165 T G A AGCCTTTGACTTTTGGTTATTAGACACAAAACAACTCTATACTTGGTATCCTAAACAGAAGTCAACAGTTAAATGTT
109165 T A A AGCCTTTGACTTTTGGTTATTAGACATAAAACAACTCTATACTTGGTATCCTAAACAGAAGTCAACAGTTAAATGTT

FIGURE 129G


109165 IS [GA] AGAAAGATAAAACATTTAACTGTTGACTTCTGTTTAGGATACCAGTATAGAGTTGTTTT[GA]TGTCTAATAACCAAAAAGTCAAAGGCTTATCAAACAATTTGAGTACTCCGCTACATATAA
109169 I A CCCCCCGGCGTCCCGGGC
109169 P T A CGCGCCGAGGTGGGCGGAGTCAGY
109169 P G A ATGACGTGGCAGACGGGGCGGAGTCAGY
109169 T T A GGCCCTGACTCCGCCCACCCGGCAGACCCCGGGGGGCC
109169 T G A GCCCCTGACTCCGCCCCCCGGGACACGCCGGGGGGCC
109169 IS [TG] GCGGAGTCAGGGACCCCGGCATCCCGGGCGGGGGGAGTCAGGGCCCCCCGGCGTCCCGGG[TG]GGGCCGAGTCAGGGCCCCCCGGCGTCCCGGGTGGGGCGGAGTCAGGGCACCCTGGCGTCCC
109173 I S GCTCCGGGTCTGGGTAGGAGAGGCTT
109173 P C S ATGACGTGGCAGACGCCCTGTATGAGGTAGCY
109173 P T S CGCGCCGAGGACCCTGTATGAGGTAGCY
109173 T C S TCAAGCTACCTCATACAGGGCAGCCTCTCCTACCCAGACCCGGAGCCT
109173 T T S TCAAGCTACCTCATACAGGGTAGCCTCTCCTACCCAGACCCGGAGCCT
109173 IS [CT] TCTGGAAAATTCGGAAGCGTTTCCTCCTGTCAGCGGCCCTTCAAGCTACCTCATACAGGG[CT]AGCCTCTCCTACCCAGACCCGGAGCCTATCAATCGACGAGAAAACAGCTTCCCCTCACTG
109174 I A CTCGGCCGCCTCCGCCTAACCT
109174 P G A ATGACGTGGCAGACGGAAGTCGCAGATGTGY
109174 P A A CGCGCCGAGGAGAAGTCGCAGATGTGAY
109174 T G A ATCGTCACATCTGCGACTTCCGGTTAGGCGGAGGCGGCCGAGCT
109174 T A A ATCGTCACATCTGCGACTTCTGGTTAGGCGGAGGCGGCCGAGCT
109174 IS [GA] CACTACAGGGCAGTCCTTAACGTCATATCCGGTTGTCAGCTCGGCCGCCTCCGCCTAACC[GA]GAAGTCGCAGATGTGACGATGCAAAAACGCCCGTCGGGGGGCGCGTCTCTTTCAGCAGCCA
109216 I S CGTTGGGCAATTAATTAAGCCAGCTGATTAAGTTTTAAAGGTAAGGAT
109216 P T S CGCGCCGAGGAACAAAACACCATCTGTGAY
109216 P C S ATGACGTGGCAGACGACAAAACACCATCTGTGAY
109216 T T S ACTCTCACAGATGGTGTTTTGTTTCCTTACCTTTAAAACTTAATCAGCTGGCTTAATTAATTGCCCAACGTT
109216 T C S ACTCTCACAGATGGTGTTTTGTCTCCTTACCTTTAAAACTTAATCAGCTGGCTTAATTAATTGCCCAACGTT
109216 IS [TC] GGGTCTGTAGTCTTAACTTTATTTTTTAACAATCATATACTCTCACAGATGGTGTTTTGT[TC]TCCTTACCTTTAAAACTTAATCAGCTGGCTTAATTAATTGCCCAACGTTTCTCTAAAACA
109258 I S TCGTCGCCGCACGGGCTGGA
109258 P A S CGCGCCGAGGTTGGGGCTGTGTCTGY
109258 P G S ATGACGTGGCAGACCTGGGGCTGTGTCTY
109258 T A S CCCACAGACACAGCCCCAACCAGCCCCGTGCGGCGACGACG
109258 T G S CCCACAGACACAGCCCCAGCCAGCCCGTGCGGCGACGACG
109258 IS [AG] CAGTCCGGGGACAGAGAGTCTCCACGCGCCATCACCCCGGCGCCTCCCACAGACACAGCCCCA[AG]CCAGCCCGTGCGGCGACGACGGCCTCACCCCAGCTACTGTCACAGCACGTGACTTCCGGC
109261 I A CCCACCTCAGGCACCCAGCACCA
109261 P C A ATGACGTGGCAGACGGTGACCATGGTAGTTGY
109261 P T A CGCGCCGAGGTGTGACCATGGTAGTTGGY
109261 T C A GGCTCCAACTACCATGGTCACGGGTGCTCGGTGCCTGAGGTGGGCT
109261 T T A GGCTCCAACTACCATGGTCACAGGTGCTCGGTGCCTGAGGTGGGCT
109261 IS [CT] CCTGGCCATGGTGACCACCTTGACAGGGCCAAGAACAGCCCACCTCAGGCACCGACGCACC[CT]GTGACCATGGTAGTTGCAGCCTCAGTCCCCGTGAGTATAGGCAAAACAAGACATAGATGA
109262 I A GCAGCCCCCCAGCCCAGGGA
109262 P C A ATGACGTGGCAGACTGGGCTCTGCCTGY
109262 P T A CGCGCCGAGGTTGGGCTCTGCCTGY
109262 T C A GCCTCAGGCAGAGCCCAGCCTGGGCTGGGGGGCTCCTC
109262 T T A GCCTCAGGCAGAGCCCAACCTGGGCTGGGGGGCTCCTC
109262 IS [CT] ATGGCATCAGGAGTGGTTCCAGGCACATCTCTGGGTCCTGAGGAGCCCCCCAGCCCAGGG[CT]TGGGCTCTGCCTGAGGCCCAGGTGTCAATCCCTAAGGTCTTGGGGTCTCTGAGGGGCACT
109270 I A AAATTTTATAAGAAGAATAACTTTATTTTATTTTACTCTTATCGATTTACCAGTCTCTCCTTT
109270 P A A CGCGCCGAGGAAATAGTAAAGATACTGGGTTTCTY
109270 P G A ATGACGTGGCAGACGAATAGTAAAGATACTGGGTTTCTY
109270 T A A TAGAAGAAACCAGTATCTTTACTATTTAAGGAGACTCGTAAATCGATAAGAGTAAAATAAAATAAAGTTATTCTTCTTATAAAATTT
109270 T G A TAGAAGAAACCAGTATCTTTACTATTCAAGGAGACTCGTAAATCGATAAGAGTAAAATAAAATAAAGTTATTCTTCTTATAAAATTT
109270 IS [AG] AAATTTTATAAGAAGAATAACTTTATTTTATTTTACTCTTATCGATTTACGAGTCTCCTT[AG]AATAGTAAAGATACTGGGTTTCTTCTATTACTTTTTCAGCTTTTTCCCCTTTCTCTTCT
109288 I S ATCCTCCTCAAACTGAGTACAAGAATCAGAGAAAAAACAGA
109288 P G S ATGAGGTGGCAGACCTCACAAGAGGCAGTTACY
109288 P A S CGCGCCGAGGTTCACAAGAGGCAGTTACY
109288 T G S TTTTGTAACTGCCTCTTGTGAGCTGTTTTTCTCTGATTCTTGTACTCAGTTTGAGGAGGATCG
109288 T A S TTTTGTAACTGCCTCTTGTGAACTGTTTTTCTCTGATTCTTGTACTCAGTTTGAGGAGGATCG
109288 IS [GA] TTTTCAGGCATCTCTTTTACATTCACATTCATAGTATAATTTTGTAACTGCCTCTTGTGA[GA]CTGTTTTTCTCTGATTCTTGTACTCAGTTTGAGGAGGATCGTATCTATCGTCATCTGGA
109291 I A GCAGATCACCCTGTGGGGAAGTCTGGCA
109291 P C A ATGACGTGGCAGACCGCTGTCGCCATTTTY
109291 P T A CGCGCCGAGGTGCTGTCGCCATTTTCY
109291 T C A CGAAGAAAATGGCGACAGCGGCCAGACTTCCCCACAGGGTGATCTGCAT
109291 T T A CGAAGAAAATGGCGACAGCAGCCAGACTTCCCCACAGGGTGATCTGCAT
109291 IS [CT] GCCCGCGGGGAGGCTGCTGGGCAGCGGACAGATGCAGATCACCCTGTGGGCAAGTCTGGC[CT]GCTGTCGCCATTTTCTTCGTCATCACCTTCCTCATCTTCCTGTGCTCTAGTTGTGACAGG
109297 I S CATTCCTGGATGGGAACTTGCTATCCTTGAAGTGACAAT
109297 P C S ATGACGTGGCAGACAGAACAAATGCCATCCCY
109297 P T S CGCGCCGAGGAAGAACAAATGCCATCCCY
109297 T C S TGGAGGGATGGCATTTGTTCTCTTGTCACTTCAAGGATAGCAAGTTCCCATCCAGGAATGTT
109297 T T S TGGAGGGATGGCATTTGTTCTTTTGTCACTTCAAGGATAGCAAGTTCCCATCCAGGAATGTT
109297 IS [CT] GGGACTCCTGGACGTGCAGGTAGACCAGACACCAGATCTTGGAGGGATGGCATTTGTTCT[CT]TTGTCACTTCAAGGATAGCAAGTTCCCATCCAGGAATGTTAAGGTGAAGGTGAAGCTCAC
109298 I S GTGCCACCACACCTTCGCCATCTACATAATCCT
109298 P T S CGCGCCGAGGATCATCAGGTAATGTCCTTGY
109298 P C S ATGACGTGGCAGACGTCATCAGGTAATGTCCTTGY
109298 T T S AAATCAAGGACATTACCTGATGATGGATTATGTAGATGGCGAAGGTGTGGTGGCACGG
109298 T C S AAATCAAGGACATTACCTGATGACGGATTATGTAGATGGCGAAGGTGTGGTGGCACGG
109298 IS [TC] GACATTTCCAGTATAGAGCCTGCTGAGAATGAACATGAAATCAAGGACATTACCTGATGA[TC]GGATTATGTAGATGGCGAAGGTGTGGTGGCACGGAGACCTCTTGGTGACCAGGCCGGACA
109323 I A CCCCAGGCACCCACGTCGAGTGA
109323 P C A ATGACGTGGCAGACCGTTAAAGTGCTGCCGY
109323 P T A CGCGCCGAGGTGTTAAAGTGCTGCCGY
109323 T C A ACCTCGGCAGCACTTTAACGCACTCGACGTGGGTGCCTCGGCC
109323 T T A ACCTCGGCAGCACTTTAACACACTCGACGTGGGTGCCTCGGCC
109323 IS [CT] TTCTTGAGGACGCCGATGGCGAATGACTGGTATTAAGGCCCGAGGCACCCAGGTCGAGTG[CT]GTTAAAGTGCTGCCGAGGTTCCAGGCTTGAGCCCTTGTCCTGAAACACACACATCAAACA
109351 I S AGAATTCCTGGCTTAACTCTATACATAATTTTATATTCTGTAGTTTAAGCATTCCT
109351 P C S ATGACGTGGCAGACGGACCAAAGAAGCCACY
109351 P T S CGCGCCGAGGAGACCAAAGAAGCCACY
109351 T C S CTCCGTGGCTTCTTTGGTCCGGAATGCTTAAACTACAGAATATAAAATTATGTATAGAGTTAAGCCAGGAATTCTGG
109351 T T S CTCCGTGGCTTCTTTGGTCTGGAATGCTTAAACTACAGAATATAAAATTATGTATAGAGTTAAGCCAGGAATTCTGG


109351 IS [CT] CATGGGAAGAAATTCCCACATGAGATTCATAAATTCTTAGACTCCGTGGCTTCTTTGGTC[CT]GGAATGCTTAAACTACAGAATATAAAATTATGTATAGAGTTAAGCCAGGAATTCTGGTAT
109364 I S GCTGGGAGTGGGGAAGATGCCAATGGTTCT
109364 P C S ATGACGTGGCAGACGGGTTAGAGGAAAGAAAAGAGY
109364 P T S CGCGCCGAGGAGGTTAGAGGAAAGAAAAGAGY
109364 T C S CCCACTCTTTTCTTTCCTCTAACCCGAAACCATTGGCATCTTCCCCACTCCCAGCCT
109364 T T S CCCACTCTTTTCTTTCCTCTAACCTGAACCATTGGCATCTTCCCCACTCCCAGCCT
109364 IS [CT] TGTAGAAATAAGGTGGGCGGGCATAAACCCAACTTCTCCCACTCTTTTCTTTCCTCTAACC[CT]GAACCATTGGCATCTTCCCCACTCCCAGCCTGAGGCTATCTAGGACATGACAGACCACAG
109367 I S GCTTAAGCAGAAATAAAAAACAGGGCTTGCCTGCCC
109367 P A S CGCGCCGAGGTAAGGAGTAGAATTCCAAAATY
109367 P C S ATGACGTGGCAGACGAAGGGAGTAGAATTCCAAAAT
109367 T A S TGTGATTTTGGAAATTCTACTCCCTTAGGCAGGCAAGCCCTGTTTTTTATTTCTGCTTAAGCTT
109367 T C S TGTGATTTTGGAAATTCTACTCCCTTCGGCAGGCAAGCCCTGTTTTTTATTTCTGCTTAAGCTT
109367 IS [AC] TTTTAGGTCCCCTCGTGCCTGACATGCAAACCAGATGTGATTTTGGAATTCTACTCCCTT[AC]GGCAGGCAAGCCCTGTTTTTTATTTCTGCTTAAGCTTTTAGTACAGTGAGAGCGGGCAT
109380 I A CCAGTGAATCCTATTCTTATCCTTTGTGCATCCCAAGATTTGTTGA
109380 P C A ATGACGTGGCAGACCTAGCACCCATGGGTY
109380 P T A CGCGCCGAGGTTAGCACCCATGGGTY
109380 T C A GAGAAACCCATGGGTGCTAGCAACAAATCTTGGGATGCACAAAGGATAAGAATAGGATTCACTGGGA
109380 T T A GAGAAACCCATGGGTGCTAACAACAAATCTTGGGATGCACAAAGGATAAGAATAGGATTCACTGGGA
109380 IS [CT] ATGTCTTCCTACTTCCCAGTGAATCCTATTCTTATCCTTTGTGCATCCCAAGATTTGTTG[CT]TAGCACCCATGGGTTTCTCGTTTTCCCCCACAGAGGTTCCCTATAAAAGAGAAGAGGAAG
109394 I S GCTTCCTGTGGGGAAAAGGAGTGGGAGTATAGGT
109394 P T S CGCGCCGAGGAATCTATATTTAGCAGAGTAAGCAY
109394 P G S ATGACGTGGCAGACCATCTATATTTAGCAGAGTAAGCAY
109394 T T S TTCATGCTTACTCTGCTAAATATAGATCCTATACTCCCACTCCTTTTCCCCACAGGAAGCTA
109394 T G S TTCATGCTTACTCTGCTAAATATAGATGCCTATACTCCCACTCCTTTTCCCCACAGGAAGCTA
109394 IS [TG] CTTTTGGTTAAAATTTGCCTAAATTCTACCATTTTCATGCTTACTCTGCTAAATATAGAT[TG]CCTATACTCCCACTCCTTTTCCCCACAGGAAGCTACAGAAACCTGTTATGAGCTTAGTCA
109411 I S CCTGCCCGGGCCAAAGAGCCCA
109411 P G S ATGACGTGGCAGACCTCATCAGGGTCCACCY
109411 P A S CGCGCCGAGGTTCATCAGGGTCCACCY
109411 T G S AGGAGGTGCACCCTGATGAAGGGCTCTTTGGCCCGGGCAGGAA
109411 T A S AGGAGGTGCACCCTGATGAAGGGCTCTTTGGCCCGGGCAGGAA
109411 IS [GA] CGTGAAAGCCAAGCCCTCGCCCCGGCTCACCATCTTTGACGAGGAGGTGCACCCTGATGA[GA]GGGCTCTTTGGCCCGGGCAGGAAGCTGTCTCCACAGGACCCCTCGGAGGACGTGTCATCC
109421 I A GGGCCCTCCAGCGGCACCAGA
109421 P C A ATGACGTGGCAGACGGACAGACCAGGTGY
109421 P T A CGCGCCGAGGTGGAGACCACGGTGY
109421 T C A AGCTCACCGTGGTCTCCGCTGGTGCCGCTGGAAGGCCCCGG
109421 T T A AGCTCACCGTGGTCTCCACTGGTGCCGCTGGAAGGCCCCGG
109421 IS [CT] TGAGCCCTCCCCTCCTCCTGCCTTGCAGAGCTCAGGCCCCGGGGCCTCCAGCGGCACCAG[CT]GGAGACCACGGTGAGCTCGTCGTCCGGATTGCCAGTCTGGAAGTGGAGAACCAGAGTCTG
109425 I S AGGTGGGCTTTCCCGGTGGGCT
109425 P G S CGCGCCGAGGCTTCAGAAACCCCTTTTAY
109425 P C S ATGACGTGGCAGACGTTCAGAAACCCCTTTTAY
109425 T G S CAGGTAAAAGGGGGTTTCTGAAGGCCCACCGGGAAAGCCCACCTCC
109425 T C S CAGGTAAAAGGGGGTTTCTGAAGGCCCACCGGGAAAGCCCACCTCC
109425 IS [GC] CAGCTTGTGCTGCGTTTCACTCAGCACTGGGAGAGAGTCAGGTAAAAGGGGGTTTCTGAA[GC]GCCCACCGGGAAAGCCCACCTCCCTCCTCCCACCCGCCACCTGCCCCCAGCGGCCGCTC
109433 I A TGCAGTAAAATAAAAAAGTCTGTTGTGAAAAAGGGTGAATATGGT
109433 P A A CGCGCCGAGGATAAAGGAATGTACTGTTCTTCAY
109433 P G A ATGACGTGGCAGACGTAAAGGAATGTACTGTTCTTCY
109433 T A A TTGCTGAAGAAACAGTACATTCCTTTATCCATATTCACCCTTTCACAACAGACTTTTTTATTTTACTGCAAA
109433 T G A TTGCTGAAGAAACAGTACATTCCTTTACCCATATTCACCCTTTCACAACAGACTTTTTTATTTTACTGCAAA
109433 IS [AG] CTGTTCCATTTCTCATTTGCAGTAAAATAAAAAAGTCTGTTGTGAAAAGGGTGAATATGG[AG]TAAAGGAATGTACTGTTCTTCAGCAAATTTTTTAGAAGATATTAGGATCTCAAAGCAGC
109452 I A GTGTAACCAAGAATTTCTGAAGTTATTGAAAGAATATAAAATGAATGTTTAGTAAACTACT
109452 P A A CGCGCCGAGGATTGTACTCTTAGTCCAAATAAAAATAY
109452 P G A ATGACGTGGCAGACGTTGTACTCTTAGTCCAAATAAAAAY
109452 T A A AGTCTATTTTTATTTGGACTAAGAGTACAATGTAGTTTACTAAACATTCATTTTATATTCTTTCAATAACTTCAGAAATTCTTGGTTACAC
109452 T G A AGTCTATTTTTATTTGGACTAAGAGTACAACGTAGTTTACTAAACATTCATTTTATATTCTTTCAATAACTTCAGAAATTCTTGGTTACAC
109452 IS [AG] GTGTAACCAAGAATTTCTGAAGTTATTGAAAGAATATAAAATGAATGTTTAGTAAACTAC[AG]TTGTACTCTTAGTCCAAATAAAAATAGACTACAGAAGGATAGTTTAAAGTTTTTCTTAAC
109472 I S CAGAGGCAGGGGCAGGCACCCA
109472 P G S ATGACGTGGCAGACCGGGGACTGAGGGY
109472 P A S CGCGCCGAGGTGGGCACTGAGGGCY
109472 T G S GGCTGCCCTCAGTCCCCGGGGTGCCTGCCCCTGCCTCTGCC
109472 T A S GGCTGCCCTCAGTCCCCAGGGTGCCTGCCCCTGCCTCTGCC
109472 IS [GA] GGGATTCAGGCAAGAGTGAGTGACCAGAAAGTGGGGGCTCTGAGGCTGCCCTCAGTCCCC[GA]GGGTGCCTGCCCCTGCCTCTGCCTGCTGAGTGAAGCTGGGCGAGTACTCACTCTCAGT
109476 I S GTCTAGCAGCGTGCGCACCAGTGGA
109476 P G S ATGACGTGGCAGACCACGAGCCAGGAGCY
109476 P A S CGCGCCGAGGTACCAGCCAGGAGCY
109476 T G S CGCTGCTCCTGGCTGGTGCCACTGGTGCGCCAGCCTGCTAGACCG
109476 T A S CGCTGCTCCTGGCTGGTACCACTGGTGCGCCAGCCTGCTAGACCG
109476 IS [GA] AGGGTCCCCACTTGCAGCTGCAGCAGCTGCAGCAGCTGCAGCAGCGCTGCTCCTGGCTGGT[GA]CCACTGGTGCGCACGCTGCTAGACCGTGCCTATGAGCCGCTGGGGCTGCAGTGGGGACTG
109489 I S CTGGTGATATCCAGAAACTCCATCTCCTGGGGGA
109489 P G S ATGACGTGGCAGACAGGGTGCGGATCCY
109489 P A S CGCGCCGAGGTAGGGTGCGGATCCY
109489 T G S ACCGGGATCCGCACCCTACCCCAGGAGATGGAGTTTCTGGATATCACCAGCA
109489 T A S ACCGGGATCCGCACCCTACCCCAGGAGATGGAGTTTCTGGATATCACCAGCA
109489 IS [GA] TTCTTGACCTGGACTTTTTGTCCCACATCCCCTCTTTGCTCCCACCGGGGATCCGCACCCT[GA]GCCCCCAGGAGATGGAGTTTCTGGATATCACCAGCATCCGGGGATACTCGCTTTGGGAAGTT
109516 I A GCGACAAAGGCTGGGGGTGAGCAAAGAA
109516 P T A CGCGCCGAGGTTGAGTCCAGGTCTTTGAY
109516 P C A ATGACGTGGCAGACCTCAGTCCAGGTCTTTGAY
109516 T T A GACTTCAAAGACCTGGACTGAATCTTTGCTCACCCCCAGCCTTTGTCGCCT
109516 T C A GACTTCAAAGACCTGGACTGAGTCTTTGCTCACCCCCAGCCTTTGTCGCCT
109516 IS [TC] AGTGCGCAGGGGTGTGGCAGCTCCTGCCGAAGAGGCGACAAAGGCTGGGGGTGAGCAAAGA[TC]TCAGTCCAGGTCTTTGAAGTCTATGGAGGCCTTAGTCCTGGCTTCTCATATTGATCCCCG
109531 I A GGCCGAGGAGGATGAGCAGGAAGAAGAATAGATGTTTTACT
109531 P A A CGCGCCGAGGAAGAGCCACAGGCTGAGY
109531 P G A ATGACGTGGCAGACGAGACCACAGGCTGAY
109531 T A A AGATCTCAGCCTGTGGTCTGTAAAACATCTATTCTCTTCCTCCTCATCCTCCTCGGCCTC
109531 T G A AGATCTCAGCCTGTGGTCTCGTAAAACATCTATTCTCTTCCTCCTCATCCTCCTCGGCCTC





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109883 IS    [AG]      ACTAGTGAGTGATGAAAAACTTCTGTAGCGCCCAGAAATTATGTGATAATAACTCCTCC[AG]GCTTTTAGGAGTTATATATCATATGGTCCCTCCCTGTCTCCAGCTGTACTGATGTTCTTT
109885 I         S     GGGAGATAAAAGAGACTTAAGGTGGAATATAGGGTTGTAAAATACTT
109885 P    T    S     CGCGCCGAGGACTTACAATTCATTTTGCATTTTGY
109885 P    C    S     ATGACGTGGCAGACGCTTACAATTCATTTTGCATTTTY
109885 T    T    S     ATTTCAAAATGCAAAATGAATTGTAAGCAGTATTTTACAACCCTATATTCCACCTTAAGTCTCTTTTATCTCCCTT
109885 T    C    S     ATTTCAAAATGCAAAATGAATTGTAAGCAGTATTTTACAACCCTATATTCCACCTTAAGTCTCTTTTATCTCCCTT

109885 IS    [TC]      GTAAGTGGGAGATTTACAAGTAAAATAAATGCAATTTCAAAATGCAAAATGAATTGTAAG[TC]AGTATTTTACAACCCTATATTCCACCTTAAGTCTCTTTTATCTCCCTTAATAAATAGCAG
109911 I         A     GGCTTTGATTCCTCTACCTGCTGTCCTTAACATTCACAAT
109911 P    G    A     ATGACGTGGCAGACGCAGCAGTTTCAACAGY
109911 P    A    A     CGCGCCGAGGACAGCAGTTTTCAACAGTY
109911 T    G    A     CTGCACTGTTGAAAACTGCTGCTTGTGAATGTTAAGGACAGCAGGTAGAGGAATCAAAGCCAG
109911 T    A    A     CTGCACTGTTGAAAACTGCTGTTTGTGAATGTTAAGGACAGCAGGTAGAGGAATCAAAGCCAG

109911 IS    [GA]      TCTCCTTTCTAGGATGCTGCTGGCTTTGATTCCTCTACCTGCTGTCCTTAACATTCACAA[GA]CAGCAGTTTTCAACAGTGCAGATGACATAGGCTGAGCATGGCTCACAAGTGTTGCTCGAG
109928 I         A     TCTTGGAGTAACAGAAGGGGGTCAAGGGAAGATACAA
109928 P    T    A     CGCGCCGAGGTAGGCAGAGAACCAAGY
109928 P    C    A     ATGACGTGGCAGACAGGCAGAGAACCCAY
109928 T    T    A     AGAACTTGGGTTCTCTGCCTATGTATCTTCCCTTGACCCCCTTCTGTTACTCCAAGAGG
109928 T    C    A     AGAACTTGGGTTCTCTGCCTGTGTATCTTCCCTTGACCCCCTTCTGTTACTCCAAGAGG

109928 IS    [TC]      CTCTTTTCCTTACACATCATGGCCTCTTGGAGTAACAGAAGGGGGTCAAGGGAAGATACA[TC]AGGCAGAGAACCAAGTTCTTATCATAACCCCACTGTAGCCTTTTCCTTACCAAAGCC
109931 I         A     AGGACCATCTGTTTAGCATGGCCACCCAGA
109931 P    C    A     ATGACGTGGCAGACCAGGAGTAAGTGGCTTCY
109931 P    T    A     CGCGCCGAGGTAGGAGTAAGTGGCTTCCY
109931 T    C    A     CTGAGGAAGCCACTTACTCCTACTGGGTGGCCATGCTAAACAGATGGTCCTGC
109931 T    T    A     CTGAGGAAGCCACTTACTCCTACTGGGTGGCCATGCTAAACAGATGGTCCTGC

109931 IS    [CT]      TTGCTATTAGAAATGCAGAATGGGGTGGGGCAGGACCATCTGTTTAGCATGGCCACCCAG[CT]AGGAGTAAGTGGCTTCCTCAGTTGGAAACCATGGCTTGGAGTCTGTAAATGTAATCAGAT
109943 I         A     AGTTAACGTTACACTTAAATAATAACCTATATTTGTTACTGCATTTGAATCACTCTTAC
109943 P    T    A     CGCGCCGAGGTCTGACTTAGTTGGTCAGGY
109943 P    G    A     ATGACGTGGCAGACGCTGACTTAGTTGGTCAGY
109943 T    T    A     ATTTCCTGACCAACTAAGTCAGATAAGAGTGATTCAAATGCAGTAACAAATATAGGTTATTATTTAAGTGTAAGGTTAACTTT
109943 T    G    A     ATTTCCTGACCAACTAAGTCAGCTAAGAGTGATTCAAATGCAGTAACAAATATAGGTTATTATTTAAGTGTAACGTTAACTTT

109943 IS    [TG]      AAAGTTAACGTTACACTTAAATAATAACCTATATTTGTTACTGCATTTGAATCACTCTTA[TG]CTGACTTAGTTGGTCAGGAAATCAAAAAAGTCAGTTAAAGGAAGGAATCATAAGAATTGT
109944 I         A     TGGCAGTATGGCATATAGTACACCAACTTACTGGGAAAAAAAGACT
109944 P    C    A     CGCGCCGAGGCTTGGGGTGGAGCCY
109944 P    G    A     ATGACGTGGCAGACGTTGGGGTGGAGCCY
109944 T    C    A     AAGTGGCTCCACCCCAAGGTCTTTTTTTCCCAGTAAGTTGGTGTACTATATGCCATACTGCCACT
109944 T    G    A     AAGTGGCTCCACCCCAACGTCTTTTTTTCCCAGTAAGTTGGTGTACTATATGCCATACTGCCACT

109944 IS    [CG]      GGATCATAGGCATAGTGGCAGTATGGCATATAGTACACCAACTTACTGGGAAAAAAAGAC[CG]TTGGGGTGGAGCCACTTCTGGCTTTGGGCCTGCCCTTTCAGGTAGGACACGTGCAGGGTG
109949 I         S     GCCCAAGAGTTTGTTCACCAAAATGAGAATGTCACATCTCATT
109949 P    C    S     ATGACGTGGCAGACGCTGGCCAGAAGTCTY
109949 P    T    S     CGCGCCGAGGACTGGCCAGAAGTCTAAAY
109949 T    C    S     TCTCTTTAGACTTCTGGCCAGCATGAGATGTGACATTCTCATTTTGGTGAACAAACTCTTGGGCTA
109949 T    T    S     TCTCTTTAGACTTCTGGCCAGTATGAGATGTGACATTCTCATTTTGGTGAACAAACTCTTGGGCTA

109949 IS    [CT]      TACCCTGTAGAAAAAAAAATTAGTAACTCCATACCTTTTCTCTTTAGACTTCTGGCCAG[CT]ATGAGATGTGACATTCTCATTTTGGTGAACAAACTCTTGGGCTACAACTGTTTTTACAGG
109951 I         A     GCCTGAAAGGGTGCAAGGGCCAGAGC
109951 P    G    A     ATGACGTGGCAGACGAGAGCAAGTCACACCY
109951 P    T    A     CGCGCCGAGGTAGAGCAAGTCACACCCY
109951 T    G    A     CCTGGGGTGTGACTTGCTCTCCTCTGGCCCTTGCACCCTTTCAGGCAG
109951 T    T    A     CCTGGGGTGTGACTTGCTCTACTCTGGCCCTTGCACCCTTTCAGGCAG

109951 IS    [GT]      CCTTGATGACGCCGTATTCGGGGAAATGTTCTTCTGCCTGAAAGGGTGCAAGGGCCAGAG[GT]AGAGCAAGTCACACCCAGGCTACGAGGCGGAACGTACAAACCAGGTCTGAGACACCCCG
109961 I         A     CCCCTCCCCGCCACCCCT
109961 P    G    A     ATGACGTGGCAGACGCCTCCCCAGCAGY
109961 P    A    A     CGCGCCGAGGACCTCCCCAGCAGY
109961 T    G    A     CCTGCTGCTGGGGAGGCGGGGTGGCCGGGGAGGGGCT
109961 T    A    A     CCTGCTGCTGGGGAGGTGGGGTGGCCGGGGAGGGGCT

109961 IS    [GA]      CGCTGCATATCCCGGGCTCCATGTCTCGAAGTGCAGGTACCAGCCCCTCCCGGCCACCCC[GA]CCTCCCCAGCAGCAGGCCTGCCTGCTAACTCAGTTTCCCCACTTGTCAAGAGGCCAGTG
109962 I         S     GCAGTGCCCTACCTCAGGTCGGCTT
109962 P    C    S     ATGACGTGGCAGACGGAGCAGCAGCTGGY
109962 P    T    S     CGCGCCGAGGAGAGCAGCAGCTGGY
109962 T    C    S     TGCACCAGCTGCTGCTCCAGCCGACCTGAGGTAGGGCACTGCAA
109962 T    T    S     TGCACCAGCTGCTGCTCTAGCCGACCTGAGGTAGGGCACTGCAA

109962 IS    [CT]      ATGGATGGCCAGGTGTGGGATGCGAAGAATGGGCCGCTCCACGTGCACCAGCTGCTGCTC[CT]AGCCGACCTGAGGTAGGGCACTGCAACCAGCCAGGCCAGGTCAGCCCAGGGTGCCTCCTA
109967 I         S     TCTTTCCTTCAATCTCTCTGCCAGCGTTCCCAT
109967 P    T    S     CGCGCCGAGGAACCTCAGGGCTAAACTY
109967 P    C    S     ATGACGTGGCAGACGACCTCAGGGCTAAACTY
109967 T    T    S     GTGCAGTTTAGCCCTGAGGTTTGGGAACGCTGGCAGAGAGATTGAAGGAAAGAAT
109967 T    C    S     GTGCAGTTTAGCCCTGAGGTCTGGGAACGCTGGCAGAGAGATTGAAGGAAAGAAT

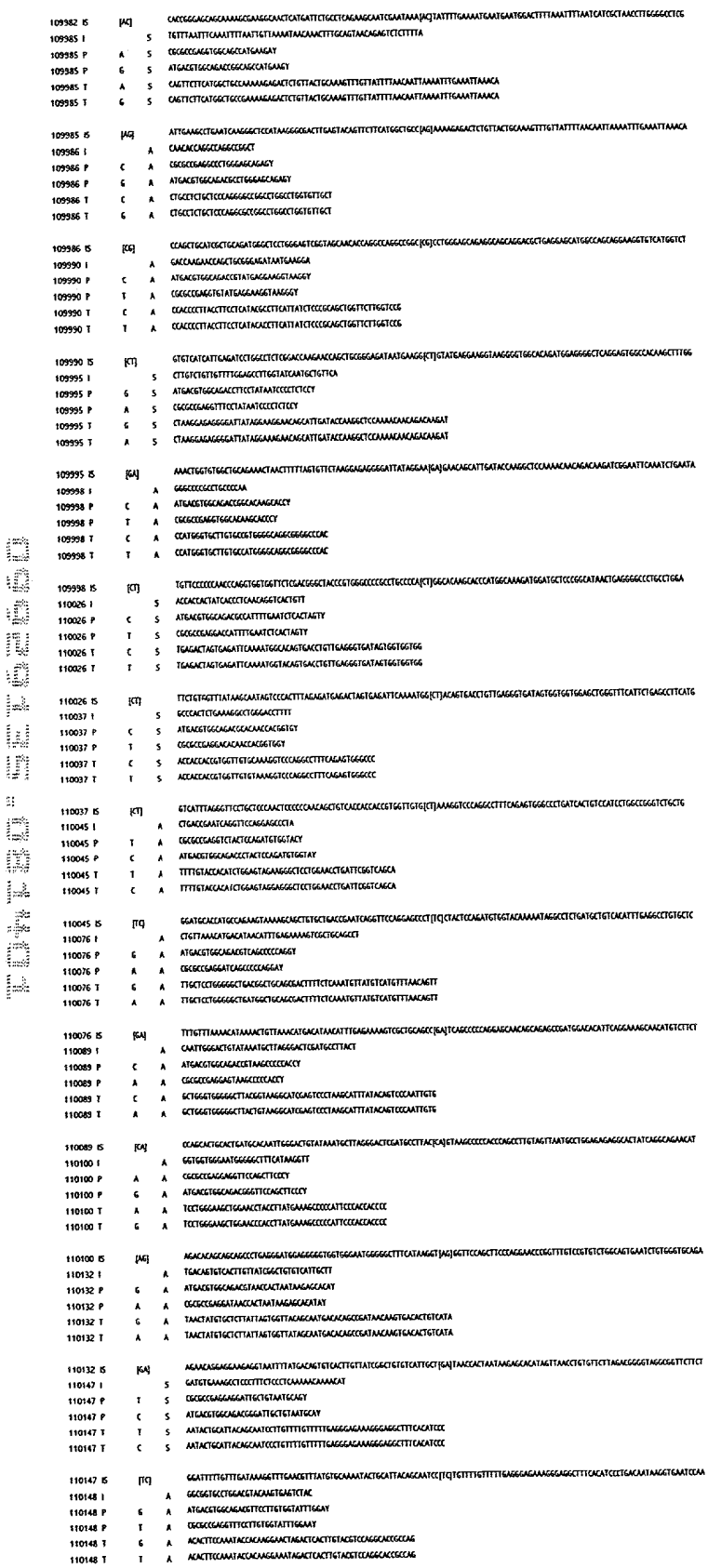
109967 IS    [TC]      CATTCTTGGCAAATGATGGTCAGCCTCCCTCTCCAAGCTCGTGCAGTTTAGCCCTGAGGT[TC]TGGCAACCTGGCAGAGAGATTGAAGGAAAGAATGTTATGAGTTGTTCTGGCCAGGGCT
109970 I         A     GGTAAGAAAAGCCTTGCTTCCCCAACCACT
109970 P    G    A     ATGACGTGGCAGACGTCGACAATGGTGAGCY
109970 P    C    A     CGCGCCGAGGCTGACAATGGTGAGCY
109970 T    G    A     CCTTGCTCACCATTGTCGACGTGGTTGGGGAAGCAGGCGTTTTCTTACCCC
109970 T    C    A     CCTTGCTCACCATTGTCGAGGTGGTTGGGGAAGCAGGCGTTTTCTTACCCC

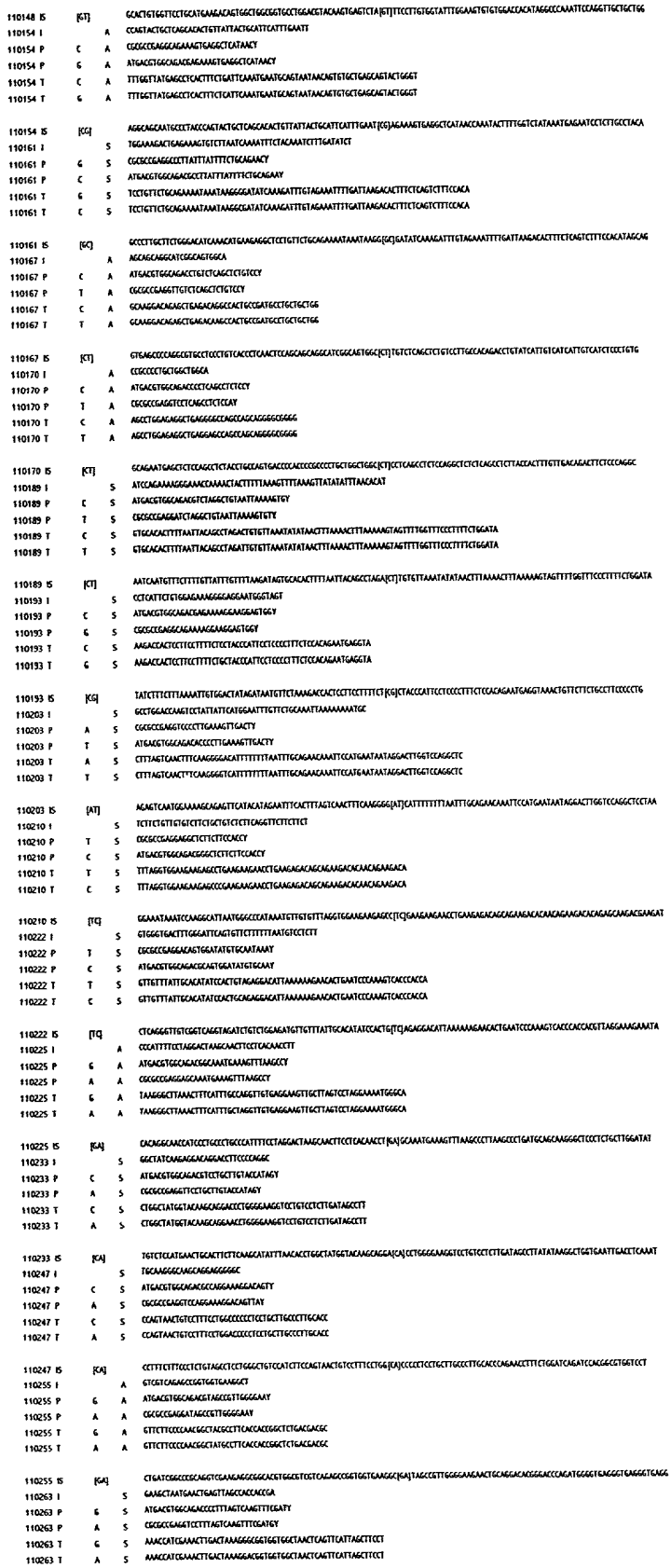
109970 IS    [GC]      GCCTGGGGTAGGTGTGAGCTTCAAAAAGTGGGGTAAGAAAACGCCTGCTTCCCCAACCAC[GC]TCGACAATGGTGAGCAAGGAGACTGTGAGTGTGTGTATGTGAGTGTGTGTGTGTGG
109979 I         S     GAAGGGAGTGAAAGGGAAGCTGAAACCTCCTTTCTAT
109979 P    T    S     CGCGCCGAGGATTCCCACTAAACAAGGGY
109979 P    C    S     ATGACGTGGCAGACGTTCCCACTAAACAAGGGY
109979 T    T    S     CCAACCCTTGTTTAGTGGGAATTAGAAAGGAGGTTTCAGCTTCCCTTTCACTCCCTTCCT
109979 T    C    S     CCAACCCTTGTTTAGTGGGAACTAGAAAGGAGGTTTCAGCTTCCCTTTCACTCCCTTCCT

109979 IS    [TC]      AAGTATCTCTCAGATGCCTTTCCCATCATGATGATGGAACCAACCCTTGTTTAGTGGGAA[TC]TAGAAAGGAGGTTTCAGCTTCCCTTTCACTCCCTTCCTTCAGGTTTTGCTAAGCAGCCAA
109982 I         A     AGGCAACTCATGATTCTGCCTCAGAAGCAATCGAATAAAT
109982 P    A    A     CGCGCCGAGGATATTTTGAAAATGAATGAATGGACY
109982 P    C    A     ATGACGTGGCAGACCTATTTTGAAAATGAATGAATGGACY
109982 T    A    A     AAAAGTCCATTCATTCATTTTCAAAATATTTTATTCGATTGCTTCTGAGGCAGAATCATGAGTTGCCTTC
109982 T    C    A     AAAAGTCCATTCATTCATTTTCAAAATAGTTTATTCGATTGCTTCTGAGGCAGAATCATGAGTTGCCTTC
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FIGURE 129G





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110263 IS      [GA]      ACCTTGAATTGAAATCCAAAATGTAACAAATGTTCAAAACCATCGAAACTTGACTAAAGG[GA]CGGTGGTGGCTAACTCAGTTCATTAGCTTCCTTATAAAATGACCAGTGTCTCATGTTAAA
110271 I             S  GCTGCCAGTCGCCACACCGTGCT
110271 P      T      S  CGCGCCGAGGAGAAAGCGCCGGCY
110271 P      C      S  ATGACGTGGCAGACGGAAAGCGCCGGY
110271 T      T      S  GGTCGCCGGCGCTTTCTGCACGGTGTGGCGACTGGCAGCAG
110271 T      C      S  GGTCGCCGGCGCTTTCCGCACGGTGTGGCGACTGGCAGCAG

110271 IS      [TC]      GAAGCTTCTCTCCGCTCCCCTATGCAGACCATTGTCAGTGCTCCGGTCGCCGGGCGCTTTC[TC]GCAGGGTGTGGCGACTGGCAGCAGCTCTCCCGATGCGAGTAGTCACAGCGCTGTCCCGCA
110280 I             S  CGATCTAATGAACATTTTCCAGCAACAACCATTGATTTAAAAGAAAT
110280 P      T      S  CGCGCCGAGGATTATTTGCCTCACCTCAAAY
110280 P      G      S  ATGACGTGGCAGACCTTATTTGCCTCACCTCAAY
110280 T      T      S  ATTATTTGAGGTGAGGCAAATAATTTTTCTTTTAAATCAATGGTTGTTGCTGGAAAATGTTCATTAGATCGAG
110280 T      G      S  ATTATTTGAGGTGAGGCAAATAAGTTTTCTTTTAAATCAATGGTTGTTGCTGGAAAATGTTCATTAGATCGAG

110280 IS      [TG]      ATATGTTGGTGATACTGATAATGTCTGATAATTTACTATTATTTGAGGTGAGGCAAATAA[TG]TTTTCTTTTAAATCAATGGTTGTTGCTGGAAAATGTTCATTAGATCGAGTTTGTATATTT
110329 I             A  CACCTTTTTCTCCTCTTTTAATTTAAAAATGTGGATGATACATAATTCAGTA
110329 P      T      A  CGCGCCGAGGTATTCATAAGTATTGTGCCAAAAAY
110329 P      C      A  ATGACGTGGCAGACCATTCATAAGTATTGTGCCAAAT
110329 T      T      A  TCTTTTTTTGGCACAATACTTATGAATAACTGAATTATGTATCATGCACATTTTTAAATTAAAAGAGGAGAAAAAGGTGAA
110329 T      C      A  TCTTTTTTGGCACAATACTTATGAATGACTGAATTATGTATCATGCACATTTTTAAATTAAAAGAGGAGAAAAAGGTGAA

110329 IS      [TC]      TGGAGATTTCACCTTTTCTCCTCTTTTAATTTAAAAATGTGCATGATACATAATTCAGT[TC]ATTCATAAGTATTGTGCCAAAAAAAGAACATATTTAATGTGAGATTATGTCATTATTTCC
110339 I             A  GACAGAAGACTACATTGATTAATATCAGTATTGTAGTGGGGGT
110339 P      A      A  CGCGCCGAGGAAAAATGAAAAGAAAAAAACCTACTTY
110339 P      G      A  ATGACGTGGCAGACGAAAATGAAAAGAAAAAAACCTACTTY
110339 T      A      A  GACAAAGTAGGTTTTTTTCTTTTCATTTTCCCCCACTACAATACTGATATTAAATCAAATGTAGTCTTCTGTCAT
110339 T      G      A  GACAAAGTAGGTTTTTTTCTTTTCATTTCCCCCCACTACAATACTGATATTAAATCAAATGTAGTCTTCTGTCAT

110339 IS      [AG]      AACTATGCCAATTTATGACAGAAGACTACATTTGATTTAATATCAGTATTGTAGTGGGGG[AG]AAAATGAAAAGAAAAAAACCTACTTTGTCTTTAAGTTCTTCAATTTGTTCTTCTTTTAC
110358 I             A  TCACCTATACTCCTGTCTTTGGCTTTCTCTACTTAATAAGCCTGACT
110358 P      G      A  ATGACGTGGCAGACGTTAGGAGCATTTGATGATTTTAY
110358 P      A      A  CGCGCCGAGGATTAGGAGCATTTGATGATTTTAGY
110358 T      G      A  ATAACTAAAATCATCAAATGCTCCTAAGGTCAGGCTTATTAAGTAGAGAAAAGCCAAAGACAGGAGTATAGGTGAAG
110358 T      A      A  ATAACTAAAATCATCAAATGCTCCTAATGTCAGGCTTATTAAGTAGAGAAAAGCCAAAGACAGGAGTATAGGTGAAG

110358 IS      [GA]      TCTTCAGCCCTCTTCACCTATACTCCTGTCTTTGGCTTTCTCTACTTAATAAGCCTGAC[GA]TTAGGAGCATTTGATGATTTTAGTTATAGTAGAATAACTATAATGAAGCAGTTTGGTGAT
110367 I             A  CGCGAGCAGGTGCTGACTGCACTGT
110367 P      A      A  CGCGCCGAGGACAGTGAGAGACCCATGY
110367 P      G      A  ATGACGTGGCAGACGCAGTGAGAGACCCATY
110367 T      A      A  TGGCCATGGGTCTCTCACTGTCAGTGCAGTCAGCACCTGCTGCCGGG
110367 T      G      A  TGGCCATGGGTCTCTCACTGCCAGTGCAGTCAGCACCTGCTGCCGGG

110367 IS      [AG]      CCCTGAAGGAGCTGCCGCCTGAGACTAAGCTCTGCCCGGCAGCAGGTGCTGACTGCACTG[AG]CAGTGAGAGACCCATGGCCACCTCTGTCCTCTCACTTCACACATCACATCTCCTCGTG
110379 I             S  GGGTCCACTGGCTATCCCCTCTCCCT
110379 P      T      S  CGCGCCGAGGATATGGCCCCAGGCY
110379 P      C      S  ATGACGTGGCAGACGTATGGCCCCAGGCY
110379 T      T      S  AGCAGCCTGGGGCCATATGGGAGAGGGGATAGCCAGTGGACCCAC
110379 T      C      S  AGCAGCCTGGGGCCATACGGGAGAGGGGATAGCCAGTGGACCCAC

110379 IS      [TC]      TTAGAGGAAAATGAGGAATGTGACCAGGAGGCAACACCTGGCAAGCAGCCTGGGGCCATA[TC]GGGAGAGGGGATAGCCAGTGGACCCACCTGGTGCAGAGCTGAGTGGCCCCGTGCAGAAC
110394 I             S  AAACAGATTTTGGTTCAAAATATTGTAACACATTTTTTCCTTCAAATAAAATATTGATAT
110394 P      G      S  CGCGCCGAGGCACTTGGTAAGAAATTCTCCY
110394 P      C      S  ATGACGTGGCAGACGACTTGGTAAGAAATTCTCCTY
110394 T      G      S  GAGGAGGAAGAATTTCTTACCAAGTGTATCAATATTTTATTTGAAGGAAAAAATGTGTTACAATATTTTGAACCAAAAATCTGTTT
110394 T      C      S  GAGGAGGAAGAATTTCTTACCAAGTCTATCAATATTTTATTTGAAGGAAAAAATGTGTTACAATATTTTGAACCAAAAATCTGTTT

110394 IS      [GC]      AATAAGCTAAGTAAAACATTCAGAACTAGGAATCAGAGGAGGAAGAATTTCTTACCAAGT[GC]TATCAATATTTTATTTGAAGGAAAAAATGTGTTACAATATTTTGAACCAAAAATCTGTTT
110402 I             S  GTCAACCCTTTGACCTAATCAAGTTTCTACATGACATTATTAAAATACAT
110402 P      T      S  CGCGCCAGGAATTATCATCTAGCAATTTTACCTTTY
110402 P      C      S  ATGACGTGGCAGACGTTATCATTCTAGCAATTTTACCTTY
110402 T      T      S  GCAAAAGGTAAAATTGCTAGAATGATAATTGTATTTTAATAATGTCATGTAGAAACTTGATTAGGTCAAAGGGTTGACGA
110402 T      C      S  GCAAAAGGTAAAATTGCTAGAATGATAACTGTATTTTAATAATGTCATGTAGAAACTTGATTAGGTCAAAGGGTTGACGA

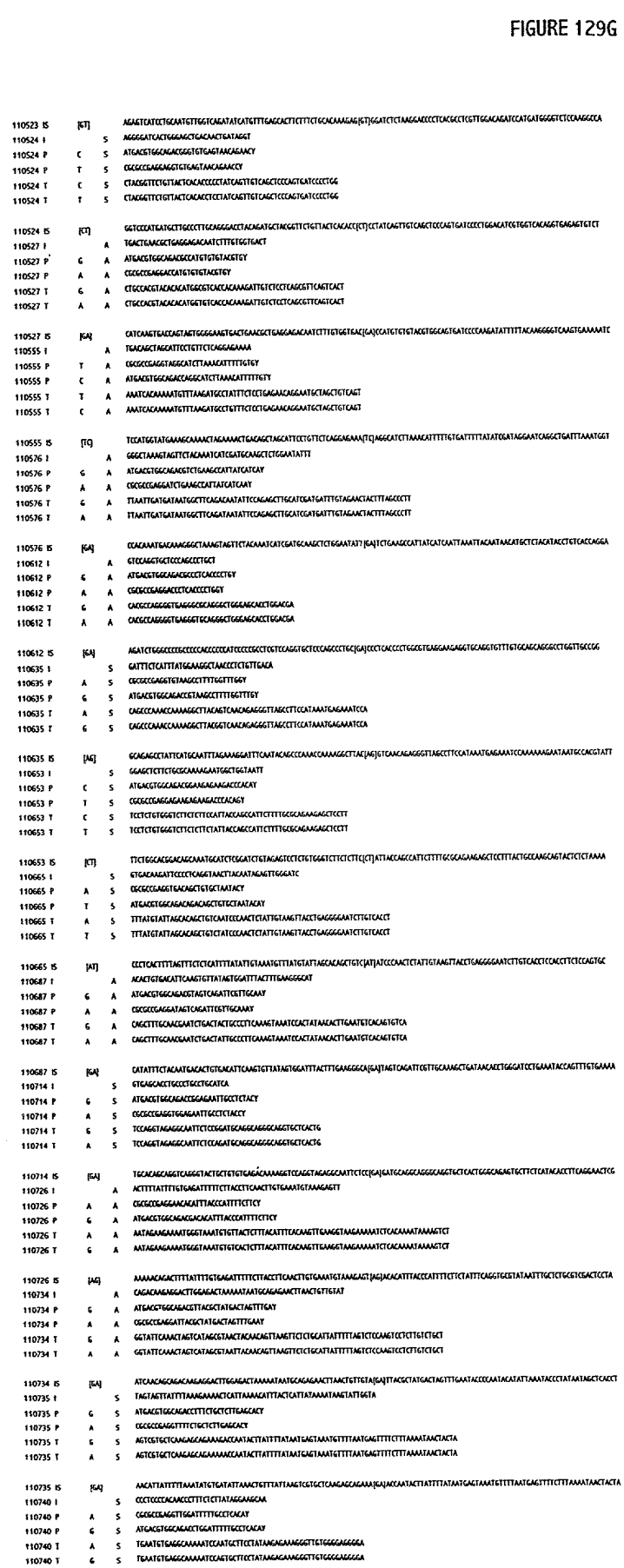
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110429 I             A  CAGACAGCAGGGAGAGTGACGGGCAA
110429 P      C      A  ATGACGTGGCAGACGTGAGACAGGGTGTGAY
110429 P      T      A  CGCGCCGAGGTGTGACAGGGTGTGACY
110429 T      C      A  CAGCGTCACACCCTGTCACGTGCCCGTCACTCTCCCTGCTGTCTGGG
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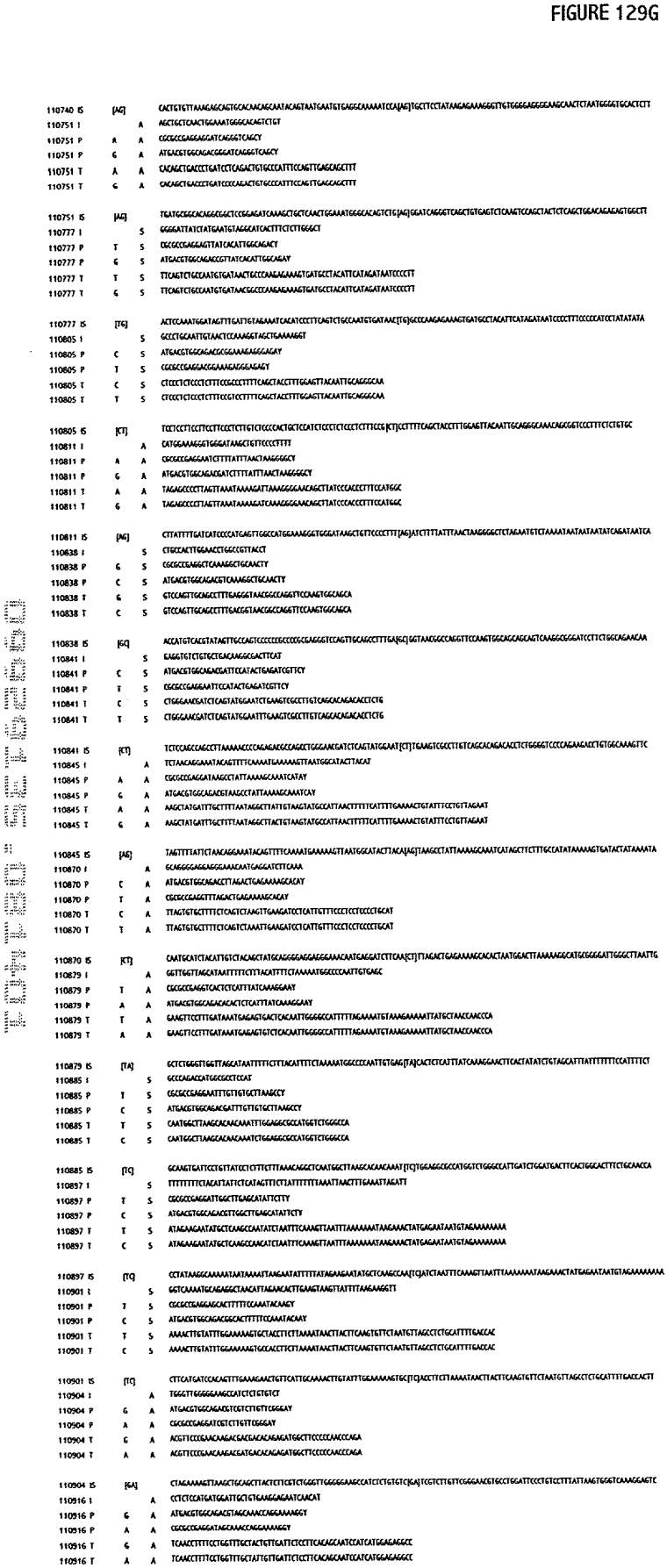
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110457 I             A  CAACTGGAGCCTAAAAAAAGTACCAGCCCTAAAAAAGCTGA
110457 P      C      A  ATGACGTGGCAGACCGGAGCCCACTGTY
110457 P      T      A  CGCGCCGAGGTGGAGCCCACTGTGY
110457 T      C      A  GATCCACAGTGGGCTCCGCAGCTTTTTTAGGGCTGGTACTTTTTTTAGGCTCCAGTTGCT
110457 T      T      A  GATCCACAGTGGGCTCCACAGCTTTTTTAGGGCTGGTACTTTTTTTAGGCTCCAGTTGCT

110457 IS      [CT]      AGCTGCAGAAGAAAGATCAGCAACTGGAGCCTAAAAAAAGTACCAGCCCTAAAAAAGCTG[CT]GGAGCCCACTGTGGATCTTTAGGACTTGGTAAGTAATAAAAAATAAAGTCACTGCTGG
110479 I             A  GGAAGGAATGGCTCAAGCCTCTGGGGACT
110479 P      C      A  CGCGCCGAGGCATCTTACCGATCTTTGACCY
110479 P      G      A  ATGACGTGGCAGACGATCTTACCGATCTTTGACCY
110479 T      C      A  TGATGGTCAAAGATGGGTAAGATGGTCCCCAGAGGCTTGAGCCATTCCTTCCCC
110479 T      G      A  TGATGGTCAAAGATCGGTAAGATCGTCCCCAGAGGCTTGAGCCATTCCTTCCCC

110479 IS      [CG]      CTCCCATGGCCAGGGGCTGCCTGACATCCAAGGGGAAGGAATGGCTCAAGCCTCTGGGGAC[CG]ATCTTACCGATCTTTGACCATCAGTTTCTTGGAACTATTCATCAGGATGTGAATCTGCTC
110507 I             A  GACAAATGTCTATGCACAAACCATGCACATATAAACTT
110507 P      G      A  ATGACGTGGCAGACGTAACTATGAAAAGCAACCTTTTY
110507 P      C      A  CGCGCCGAGGCTAACTATGAAAAGCAACCTTTTY
110507 T      G      A  AGGGAAAAGGTTGCTTTTCATAGTTAGAGTTTATATGTGCATGGTTTGTGCATACAGACATTTGTCTC
110507 T      C      A  AGGGAAAAGGTTGCTTTTCATAGTTAGAGTTTATATGTGCATGGTTTGTGCATACAGACATTTGTCTC

110507 IS      [GC]      AGAGGACACGGAAGAAAAAGAGACAAATGTCTGTATGCACAAACCATGCACATATAAACT[GC]TAACTATGAAAAGCAACCTTTTCCCTGTTAAAGATTTTAATAGCTGGCCCTCTAAAAAAT
110523 I             S  ACGAGCCGTGAGGGGTCCTTAGAGATCCT
110523 P      G      S  ATGACGTGGCAGACCCTCTTTGTGCAGAAAGAAY
110523 P      T      S  CGCGCCGAGGACTCTTTGTGCAGAAAGAAY
110523 T      G      S  GCACTTCTTTCTGCACAAAGAGGGGATCTCTAAGGACCCCTCAGCCTCGTTG
110523 T      T      S  GCACTTCTTTCTGCACAAAGAGTGGATCTCTAAGGACCCCTCAGCCTCGTTG
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110740 IS [AG] CACTGTGTTAAAGAGCAGTGCACAACAGCAATACAGTAATGAATGTGAGGCAAAAATCCA[AG]TGCTTCCTATAAGAGAAAGGGTTGTGGGGAGGGGAAGCAACTCTAATGGGGTGCACTCTT
110751 I A AGCTGCTCAACTGGAAATGGGGCACAGTCTGT
110751 P A A CGCGCCGAGGAGGATCAGGGTCAGCY
110751 P G A ATGACGTGGCAGACGGGATCAGGGTCAGCY
110751 T A A CACAGCTGACCCTGATCCTCAGACTGTGCCCATTTCCAGTTGAGCAGCTTT
110751 T G A CACAGCTGACCCTGATCCCCACAACTGTGCCCATTTCCAGTTGAGCAGCTTT
110751 IS [AG] TGATGCGGCACAGGCGGCTCCGGAGATCAAAGCTGCTCAACTGGAAATGGGCACAGTCTG[AG]GGATCAGGGTCAGCTGTGAGTCTCAAGTCCAGCTACTCTCAGCTGGACAGAGAGTGGCTT
110777 I S GGGGATTATCTATGAATGTAGGCATCACTTTCTCTTGGGCT
110777 P T S CGCGCCGAGGAGTTATCACATTGGCAGACY
110777 P G S ATGACGTGGCAGACCGTTATCACATTGGCAGAY
110777 T T S TTCAGTCTGCCAATGTGATAACTGCCCAAGAGAAAGTGATGCCTACATTCATAGATAATCCCCTT
110777 T G S TTCAGTCTGCCAATGTGATAACTGCCCAAGAGAAAGTGATGCCTACATTCATAGATAATCCCCTT
110777 IS [TG] ACTCCAAATGGATAGTTGATTGTAGAAATCACATCCCTTCAGTCTGCCAATGTGATAAC[TG]GCCCAAGAGAAAGTGATGCCTACATTCATAGATAATCCCCTTTCCCCCATCCTATATATA
110805 I S GCCCTGCAATTGTAACTCCAAAGGTAGCTGAAAAGGT
110805 P C S ATGACGTGGCAGACGCGGAAAGAGGAGAY
110805 P T S CGCGCCGAGGAGCGGAAAGAGGAGAY
110805 T C S CTCCCTCTCCCTCTTTCCGCCCTTTTCAGCTACCTTTGGAGTTACAATTGCAGGGCAA
110805 T T S CTCCCTCTCCCTCTTTCCGTCCTTTCAGCTACCTTTGGAGTTACAATTGCAGGGCAA
110805 IS [CT] TCCTCCTTCCTTCCTTCCCTCTTGTCTCCCCACTGCTCCATCTCCCTCTCCCTCTTTCCG[CT]CCTTTTCAGCTACCTTTGGAGTTACAATTGCAGGGCAAACAGCGGTCCCTTTCTCTGTGC
110811 I A CATGGAAAGGGTGGGGATAAGCTGTTCCCCTTTT
110811 P A A CGCGCCGAGGAATCTTTTATTTAACTAAGGGGCY
110811 P G A ATGACGTGGCAGACGTCAAGGCTGCAACTY
110811 T A A TAGAGCCCCTTAGTTAAATAAAAGATTAAAGGGGAACAGCTTATCCCACCCTTCCATGGC
110811 T G A TAGAGCCCCTTAGTTAAATAAAAGATCAAAGGGGAACAGCTTATCCCACCCTTCCATGGC
110811 IS [AG] CTTATTTTGATCATCCCCATGAGTTGGCCATGGAAAGGGTGGGATAAGCTGTTCCCCTTT[AG]ATCTTTTATTTAACTAAGGGGCTCTAGAATGTCTAAAATAATAATATCAGATAATCA
110838 I S CTGCCACTTGGAACCTGGCCGTTACCT
110838 P G S CGCGCCGAGGCTCAAAGGCTGCAACTY
110838 P C S ATGACGTGGCAGACGTCAAGGCTGCAACTY
110838 T G S GTCCAGTTGCAGCCTTTGAGGGTAACGCCAGGTTCCAAGTGGCAGCA
110838 T C S GTCCAGTTGCAGCCTTTGAGGGTAACGCCAGGTTCCAAGTGGCAGCA
110838 IS [GC] ACCATGTCACGTATAGTTGCCAGTCCCCCCGCCCCGCGAGGGTCCAGTTGCAGCCTTTGA[GC]GGTAACGGCCAGGTTCCAAGTGGCAGCAGCAGTCAAGGCGGGATCCTTCTGGCAGAACAA
110841 I S GAGGTGTCTGTGCTCAACAAGGCGACTTCAT
110841 P C S ATGACGTGGCAGACGATTCCATACTGAGATCGTTCY
110841 P T S CGCGCCGAGGAATTCCATACTGAGATCGTTCY
110841 T C S CTGGGAACGATCTCAGTATGGAATCTGAAGTCGCCTTGTCAGCACAGACACCTCTG
110841 T T S CTGGGAACGATCTCAGTATGGAATTTGAAGTCGCCTTGTCAGCACAGACACCTCTG
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110845 P G A ATGACGTGGCAGACGTAAGCCTATTAAAAGCAAATCAY
110845 T A A AAGCTATGATTTGCTTTTAATAGGCTTATTGTAAGTATGCCATTAACTTTTCATTTTGAAAACTGTATTTCCTGTTAGAAT
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110870 P T A CGCGCCGAGGTTTAGACTGAGAAAAGCACAY
110870 T C A TTAGTGTGCTTTTCTCAGTCTAAGTTGAAGATCCTCATTGTTTCCCTCCTCCCCTGCAT
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110879 P T A CGCGCCGAGGTCACTCTCATTTATCAAAGGAAY
110879 P A A ATGACGTGGCAGACACACTCTCATTTATCAAAGGAAY
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110885 I S GCCCAGACCATGGCGCCTCCAT
110885 P T S CGCGCCGAGGAATTTGTTGTGCTTAAGCCY
110885 P C S ATGACGTGGCAGACGATTTGTTGTGCTTAAGCCY
110885 T T S CAATGGCTTAAGCACAACAAATTTGGAGGCGCCATGGTCTGGGCCA
110885 T C S CAATGGCTTAAGCACAACAAATCTGGAGGCGCCATGGTCTGGGCCA
110885 IS [TC] GCAAGTGATTCCTGTTATCCTCTTTCTTTAAACAGGCTCAATGGCTTAAGCACAACAAATTC[TC]TGGAGGCGCCATGGTCTGGGCCATTGATCTGGATGACTTCACTGGCACTTTCTGCAACCA
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110897 P T S CGCGCCGAGGATTGGCTTGAGCATATTCTTY
110897 P C S ATGACGTGGCAGACGTTGGCTTGAGCATATTCTY
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110901 P T S CGCGCCGAGGAGCACTTTTTCCAAATACAAGY
110901 P C S ATGACGTGGCAGACGGCACTTTTTCCAAATACAAY
110901 T T S AAAACTTGTATTTGGAAAAAGTGCTACCTTCTTAAAATAACTTACTTCAAGTGTTCTAATGTTAGCCTCTGCATTTTGACCAC
110901 T C S AAAACTTGTATTTGGAAAAAGTGCCACCTTCTTAAAATAACTTACTTCAAGTGTTCTAATGTTAGCCTCTGCATTTTGACCAC
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110904 P G A ATGACGTGGCAGACGTCGTCTTGTTCGGGAY
110904 P A A CGCGCCGAGGATCGTCTTGTTCGGGAY
110904 T G A ACGTTCCCGAACAAGACGACGACACAGAGATGGCTTCCCCCAACCCAGA
110904 T A A ACGTTCCCGAACAAGACGATGACACAGAGATGGCTTCCCCCAACCCAGA
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110916 I A CCTCTCCATGATGGATTGCTGTGAAGGAGAATCAACAT
110916 P G A ATGACGTGGCAGACGTAGCAAACCAGGAAAAGGY
110916 P A A CGCGCCGAGGATAGCAAACCAGGAAAAGGY
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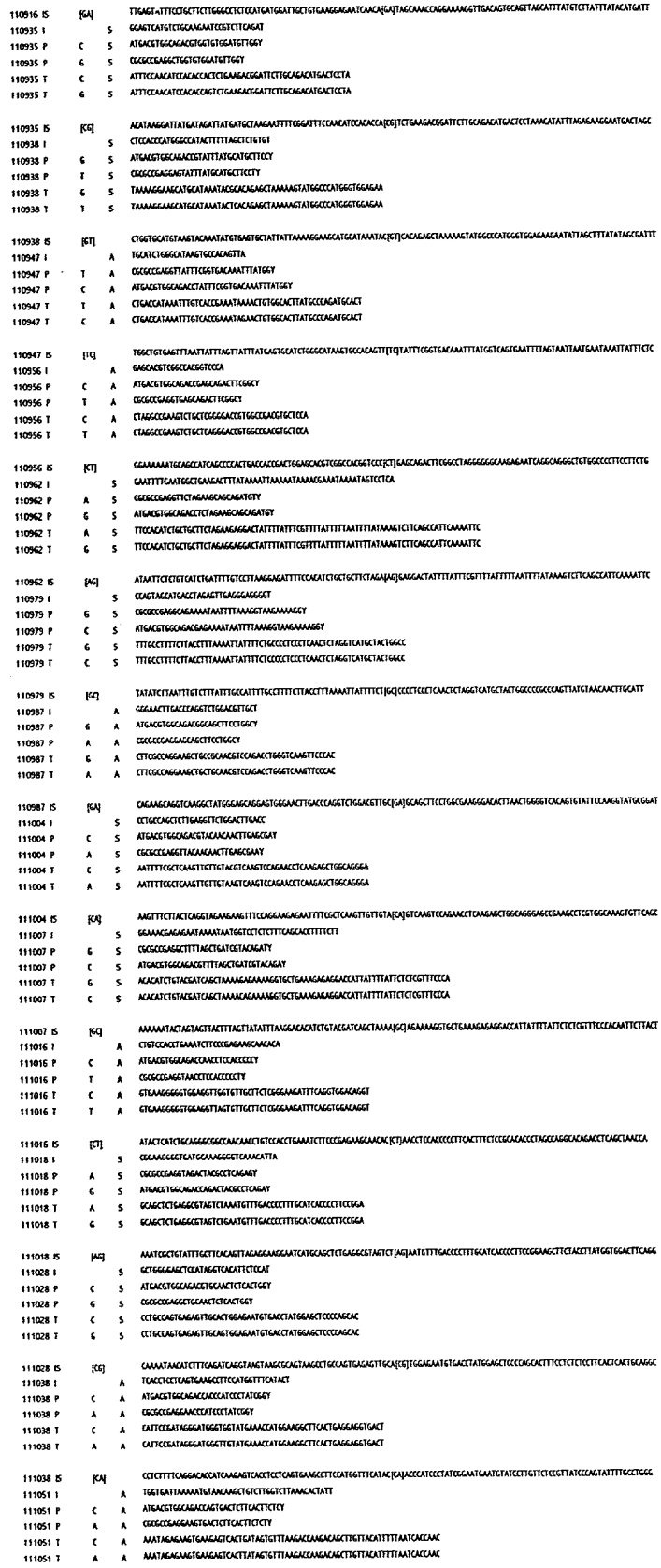


FIGURE 129G

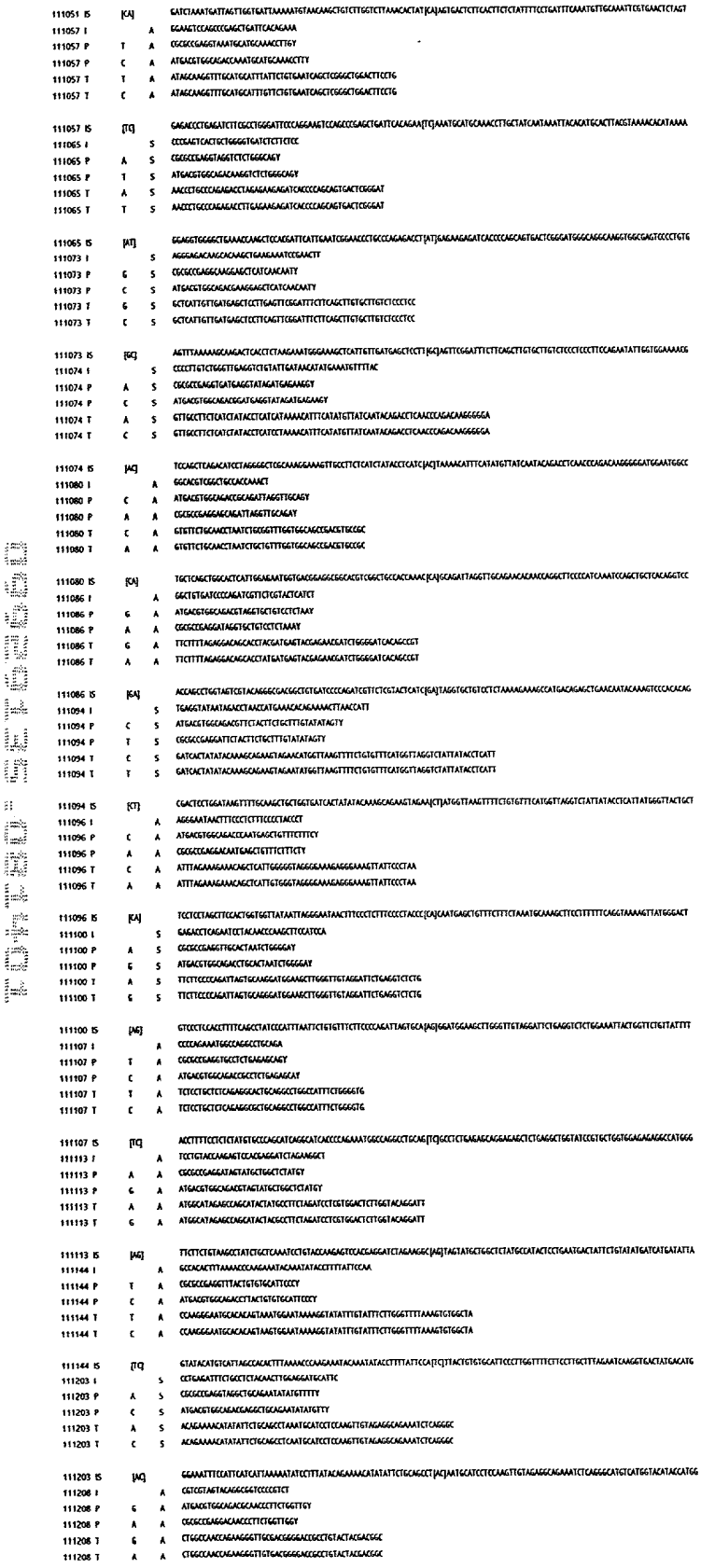

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111073 T C S
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111086 T G A
111086 T A A
111086 IS [GA]
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111094 P C S
111094 P T S
111094 T C S
111094 T T S
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111096 I A
111096 P C A
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111096 T C A
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111107 IS [TC]
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111113 P G A
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111144 IS [TC]
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111203 T A S
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111208 I A
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111208 T G A
111208 T A A

FIGURE 129G

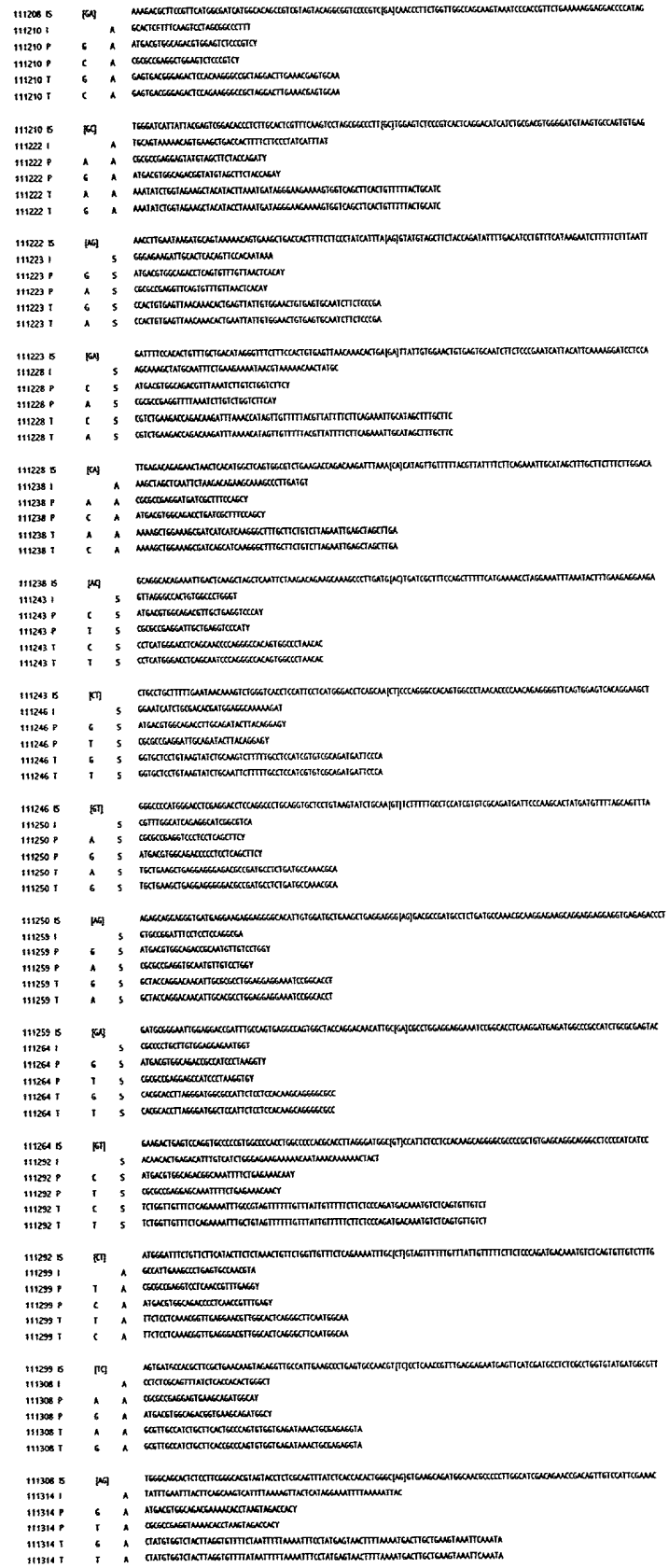

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FIGURE 129G

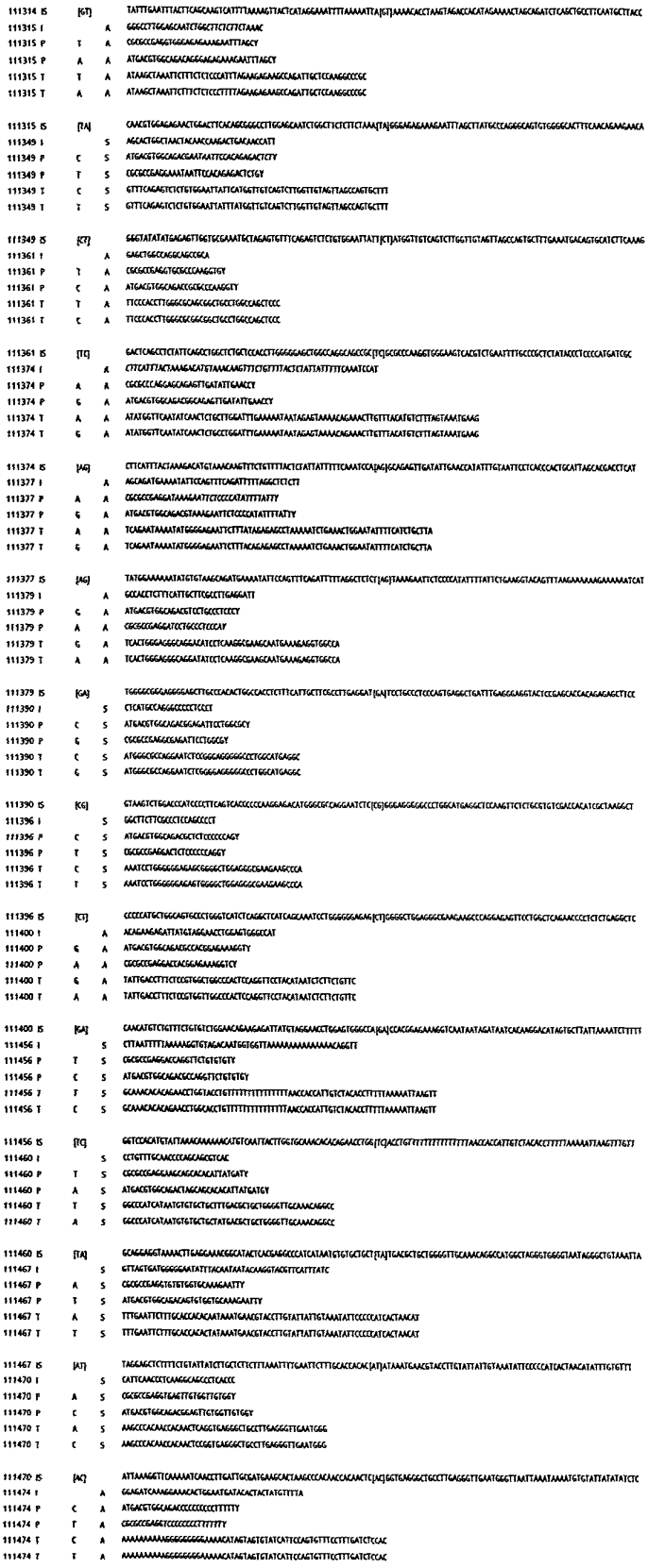
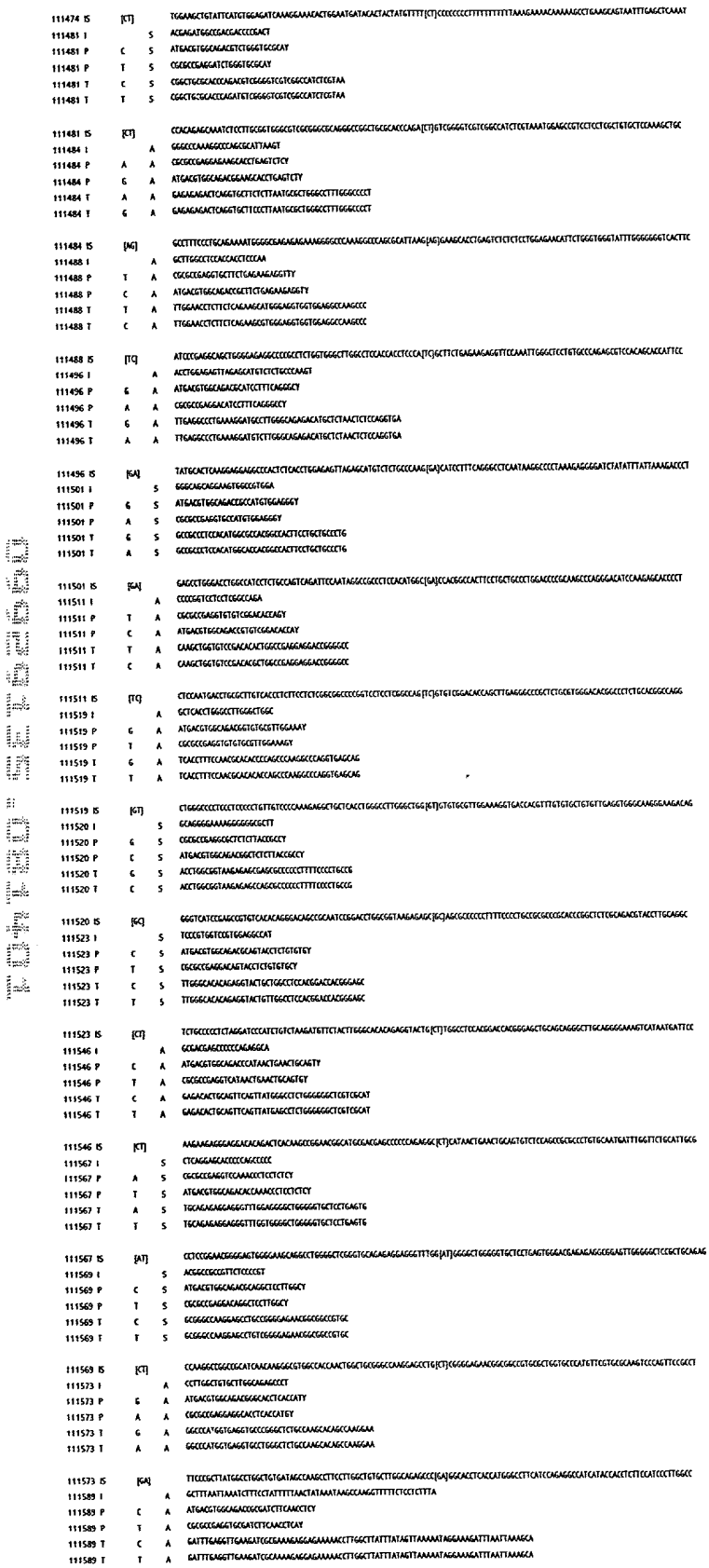


FIGURE 129G



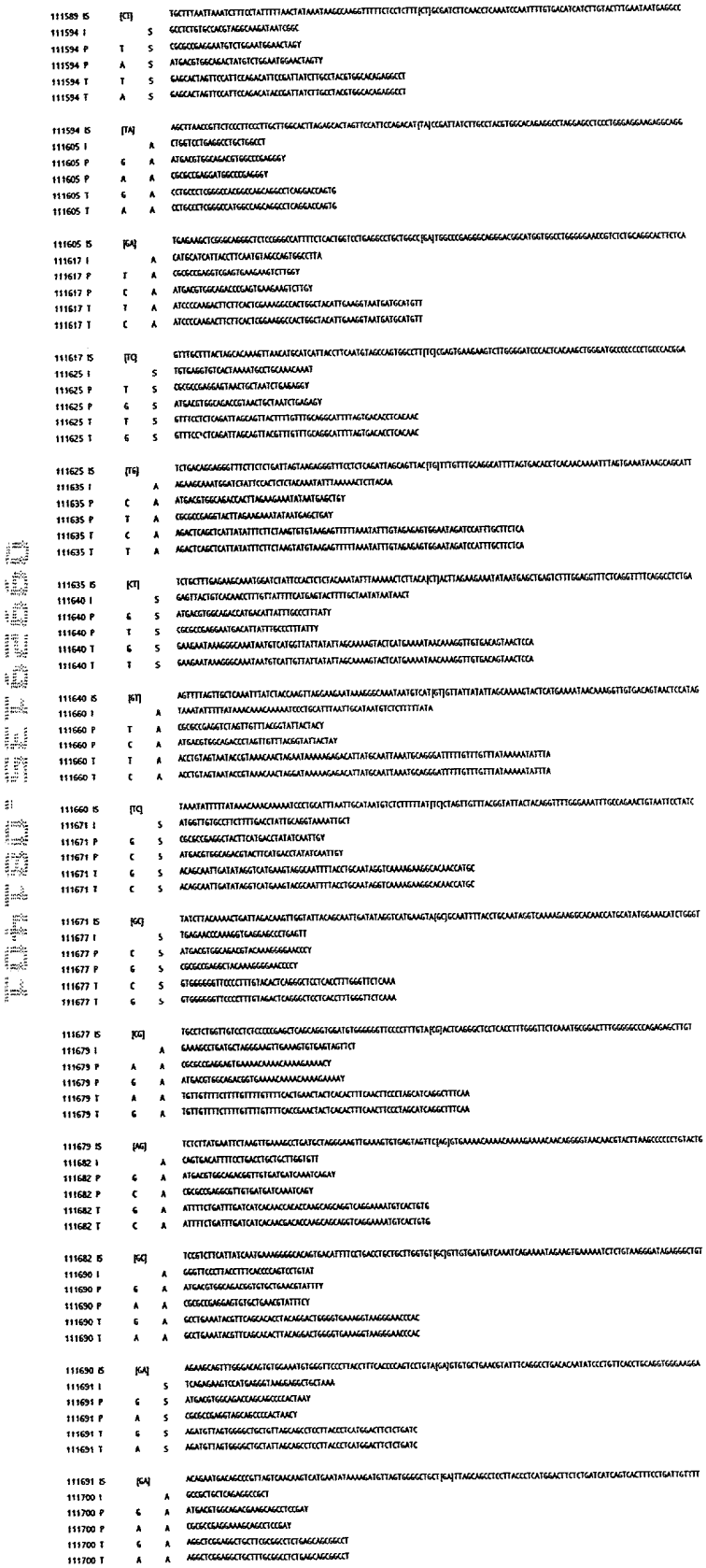
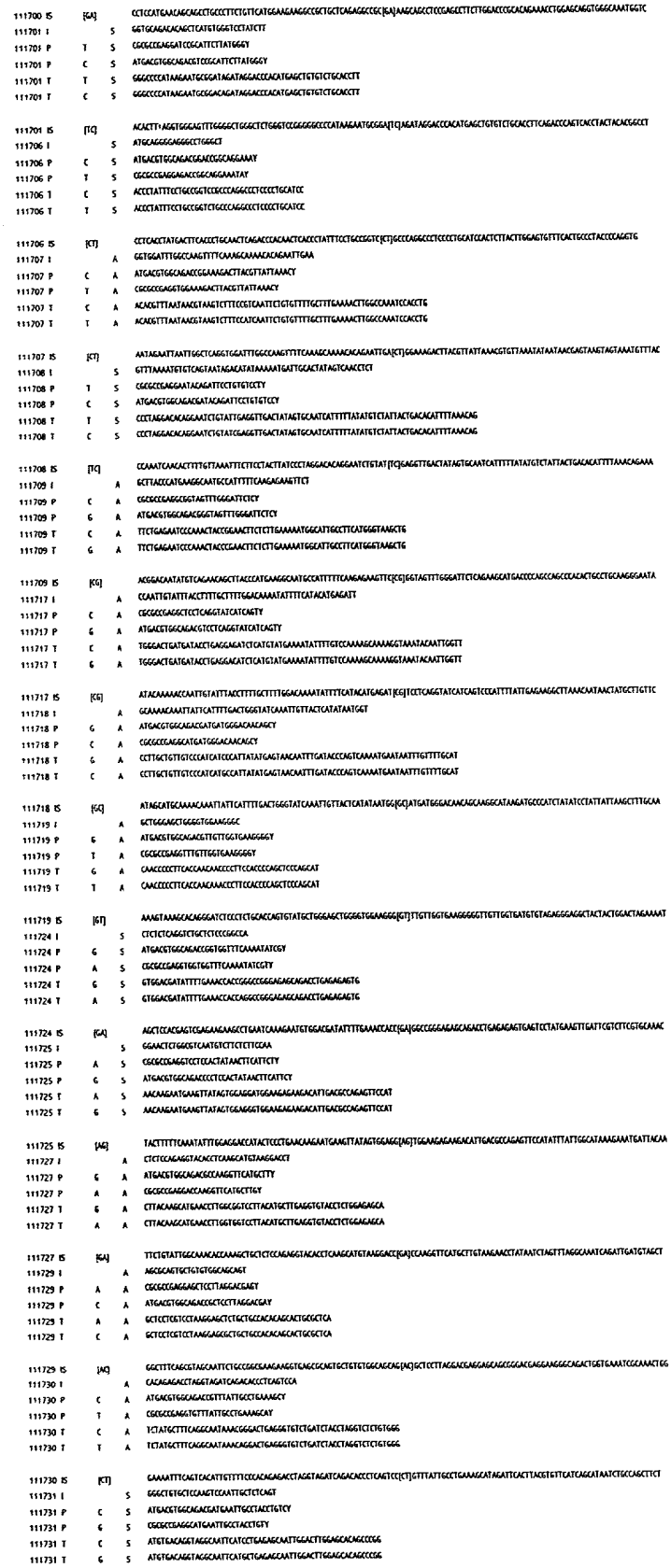
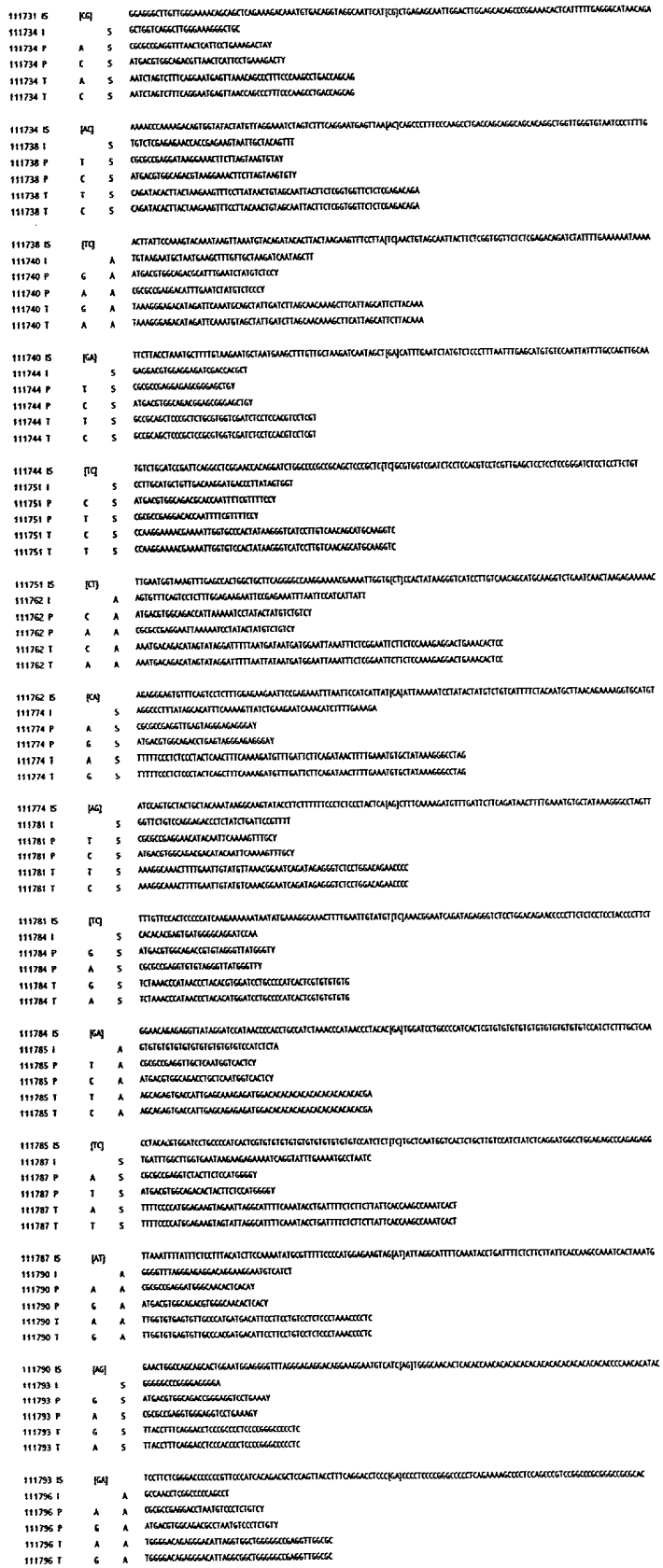


FIGURE 129G



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FIGURE 129G



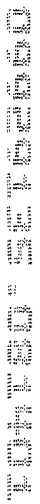


FIGURE 129G

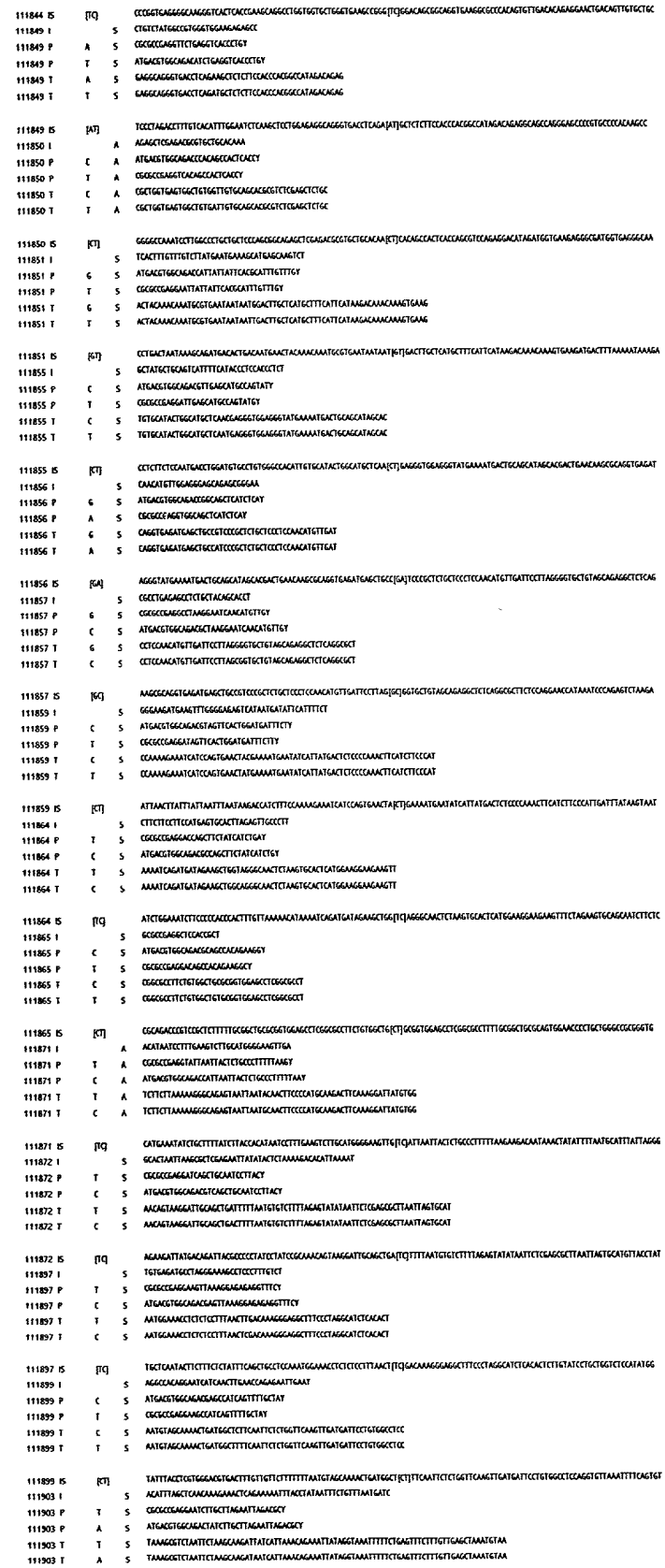


FIGURE 129G

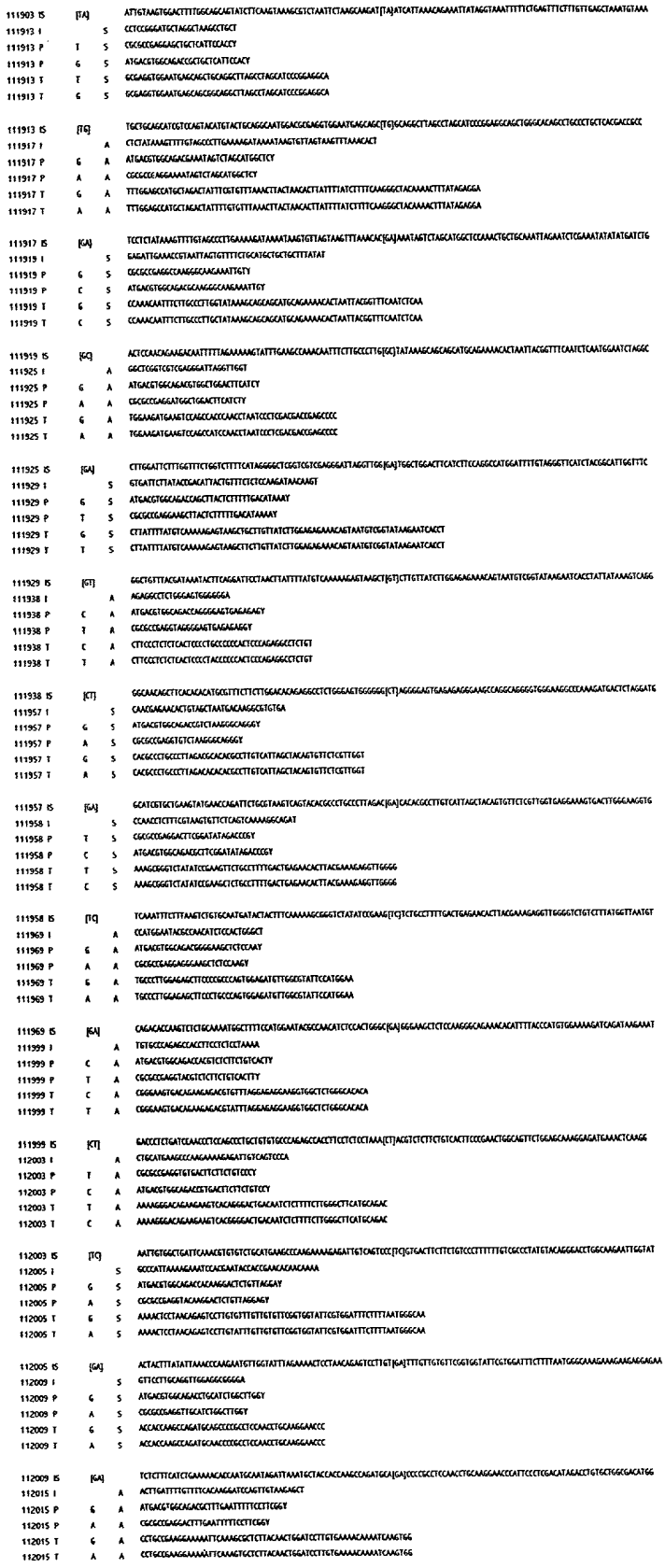
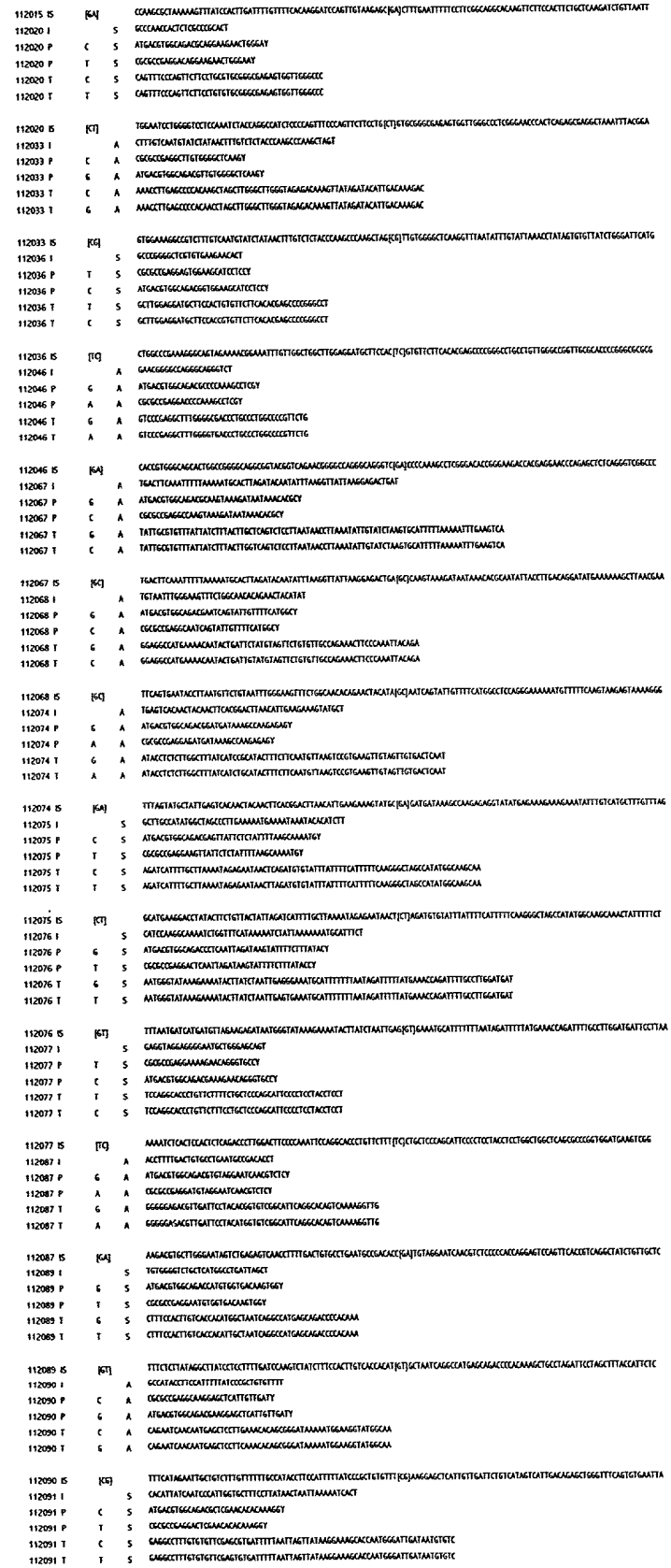
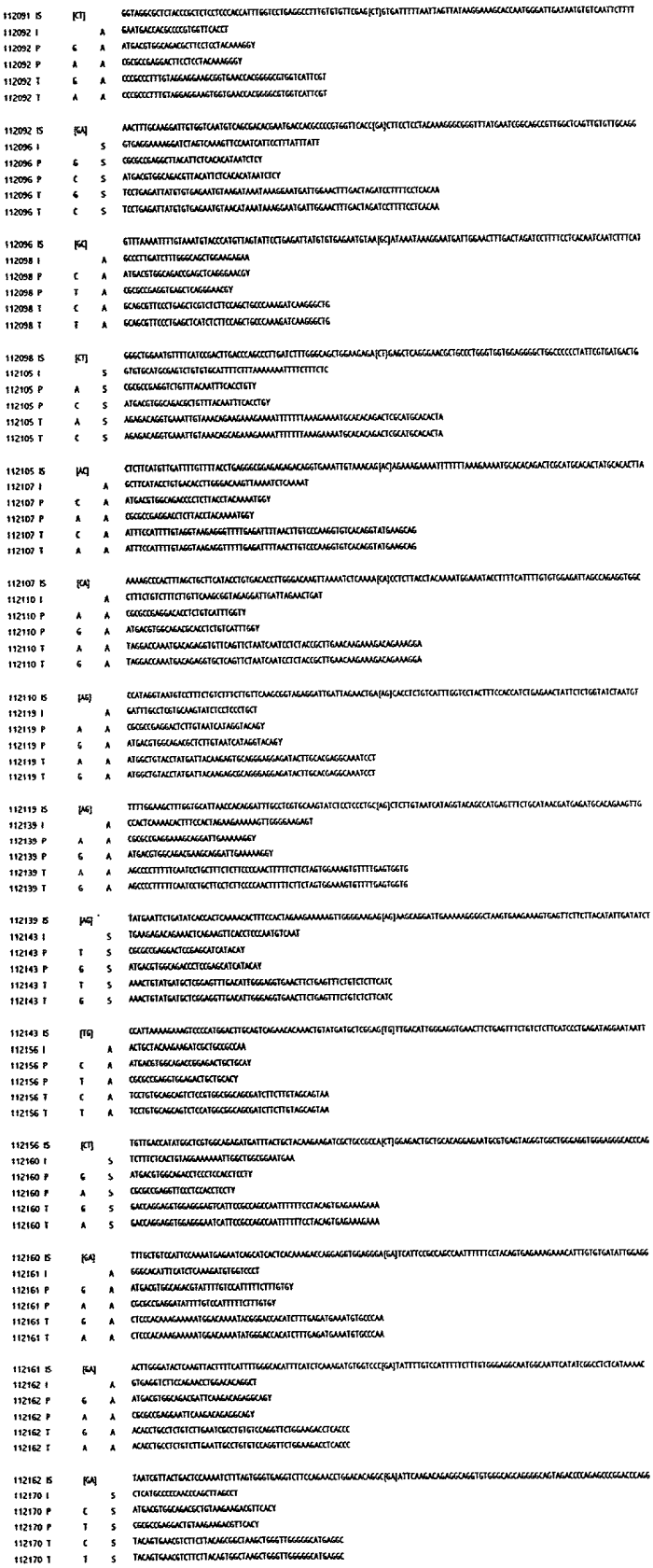

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111913 P T S CGCGCCGAGGAGCTGCTCATTCCACCY
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111913 T G S GCGAGGTGGAATGAGCAGCGGCAGGCTTAGCCTAGCATCCCGGAGGCA
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111917 P G A ATGAGGTGGCAGACGAAATAGTCTAGCATGGCTCY
111917 P A A CGCGCCCCAGGAAAATAGTCTAGCATGGCTCY
111917 T G A TTTGGAGCCATGCTAGACTATTTGGTGTTTAAACTTACTAACACTTATTTTATCTTTTCAAGGGCTACAAAACTTTATAGAGGA
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112009 T A S ACCACCAAGCCAGATGCAACCCCGCCTCCAACCTGCAAGGAACCC
112009 IS [GA] TCTCTTTCATCTGAAAAACACAATGCAATAGATTAAATGCTACCACCAAGCCAGATGC[GA]CCCCGCCTCCAACCTGCAAGGAACCCATTCCCTCGACATAGACCTGTGCTGGCGACATGG
112015 I A ACTTGATTTGTTTTCACAAGGATCCAGTTGTAAGAGCT
112015 P G A ATGACGTGGCAGACGCTTTCAATTTTTCCTTCGGY
112015 P A A CGCGCCGAGCACTTTGAATTTTCCTTCGGY
112015 T G A CCTGCCGAAGGAAAAATTCAAAGCGCTCTTACAACTGGATCCTTGTGAAAACAAAATCAAGTGG
112015 T A A CCTGCCGAAGGAAAAATTCAAAGTGCTCTTACAACTGGATCCTTGTGAAAACAAAATCAAGTGG

FIGURE 129G





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FIGURE 129G

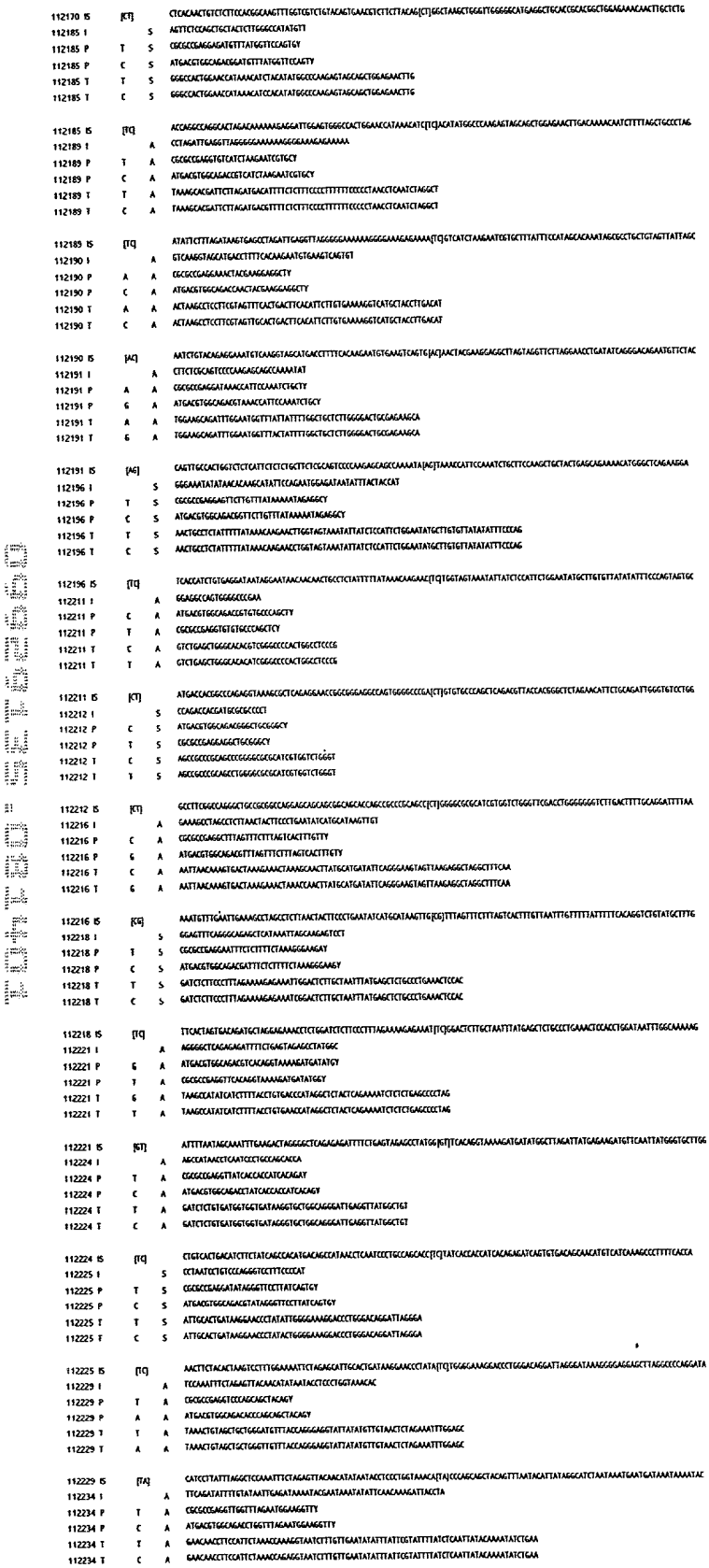
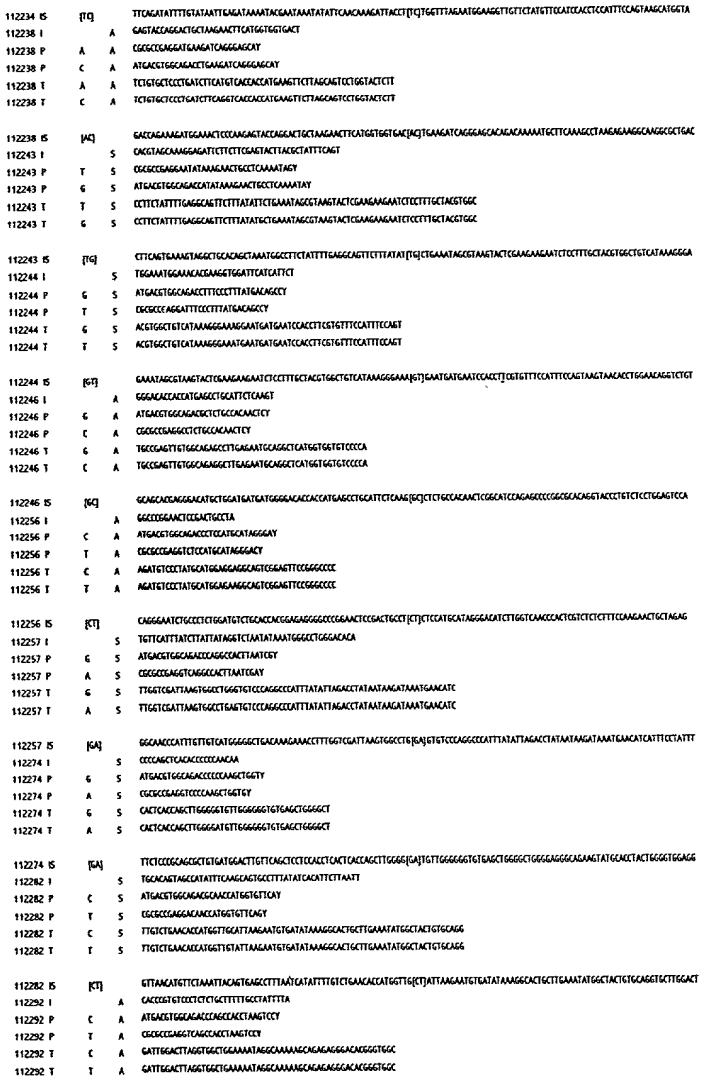
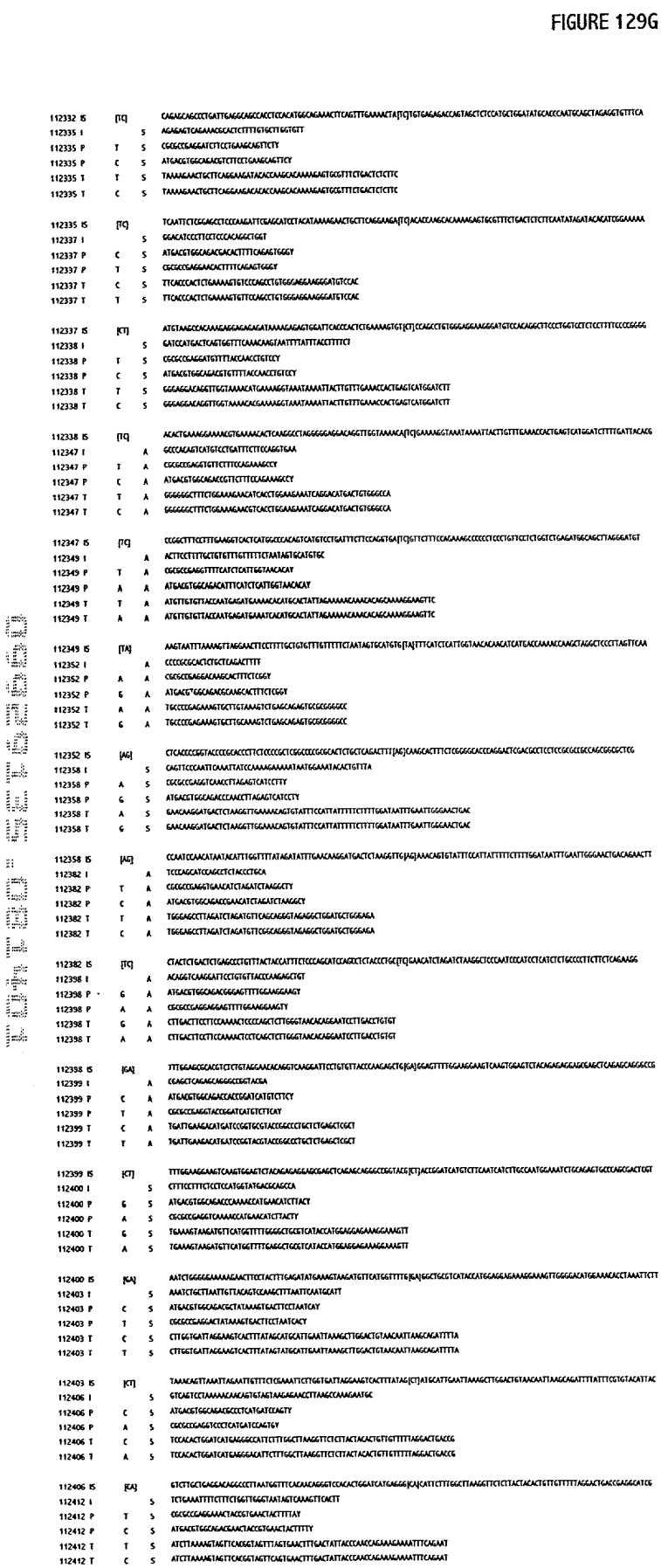
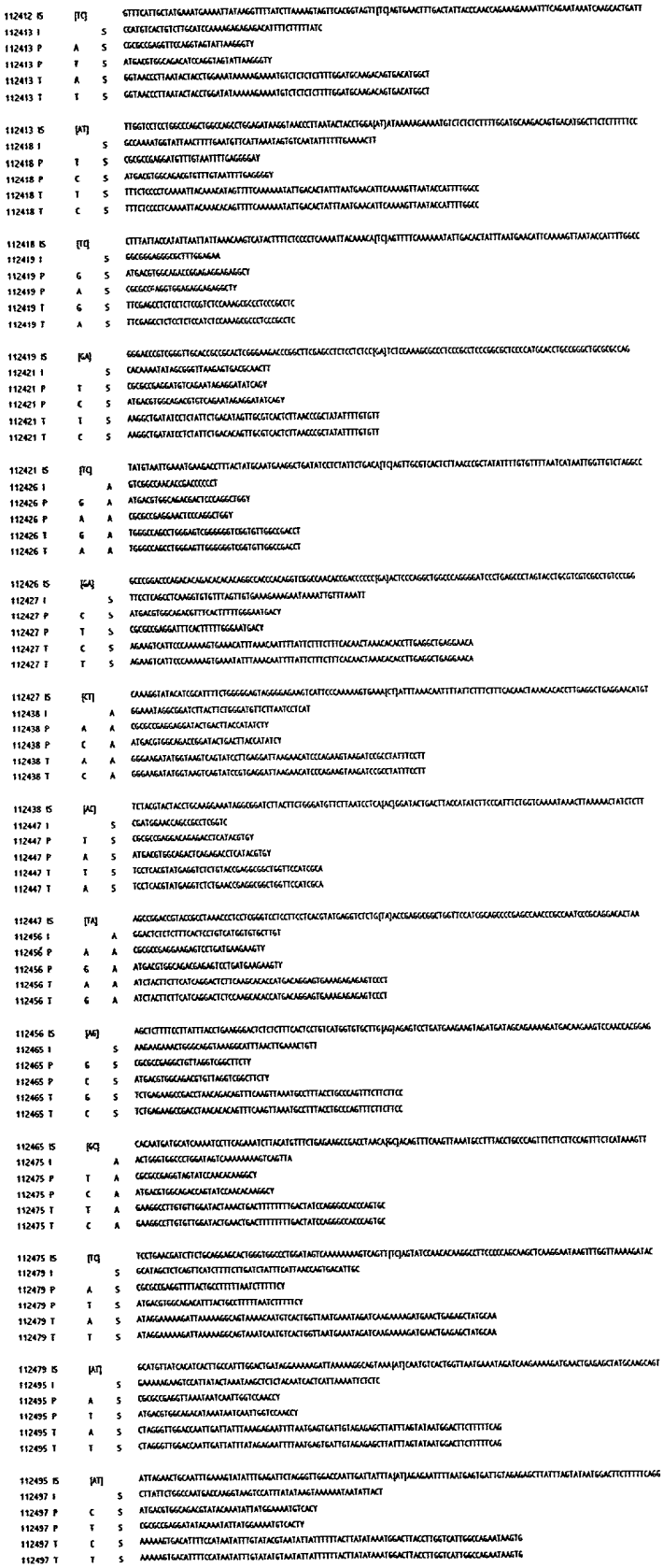


FIGURE 129G

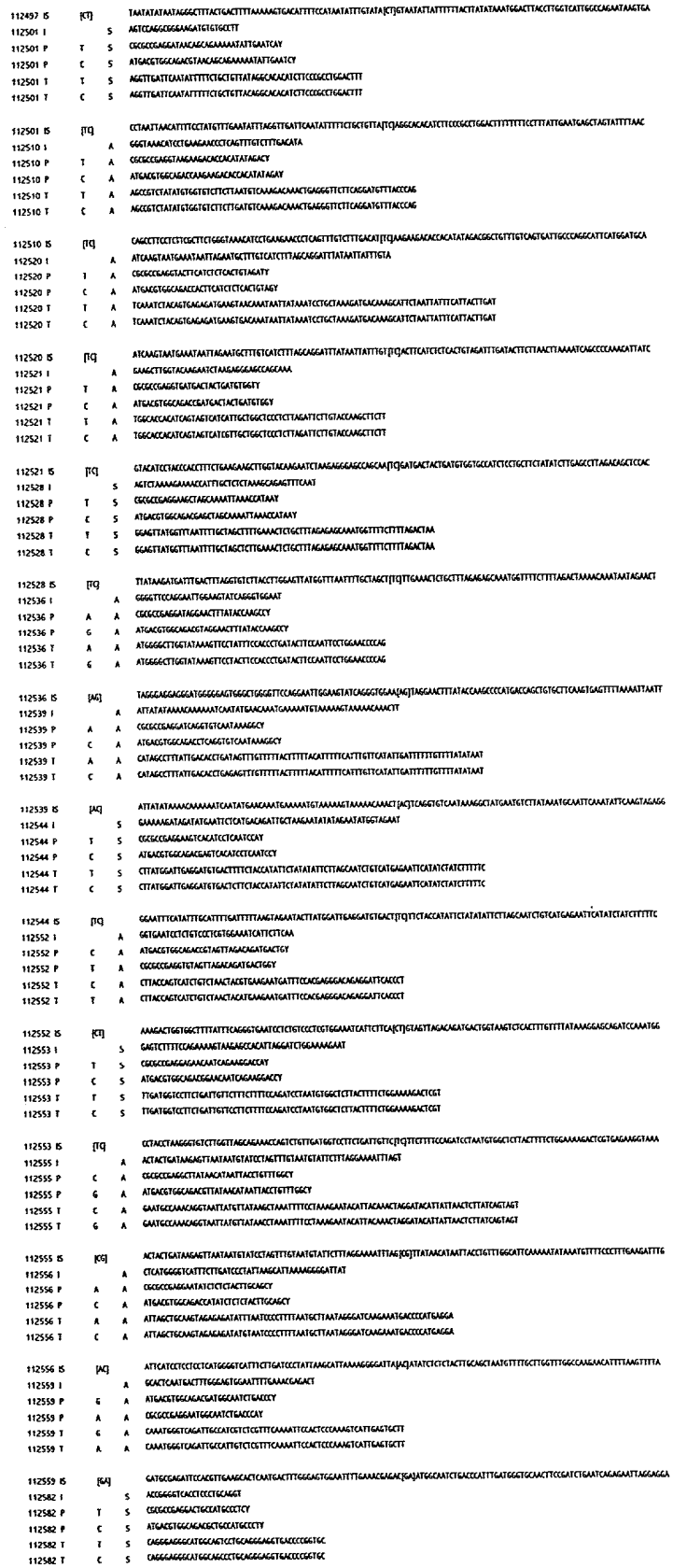






Docket No. 2001-1-PCT
Application No. 10/[illegible]
Inventor: [illegible]
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FIGURE 129G


112497 IS [CT] TAATATATAATAGGGCTTTACTGACTTTTAAAAAGTGACATTTCCATAATATTTGTATA[CT]GTAATATTATTTTTTACTTATATAAATGGACTTACCTTGGTCATTGGCCAGAATAAGTGA
112501 I S AGTCCAGGCGGGAAGATGTGTGCCTT
112501 P T S CGCGCCGAGGATAACAGCAGAAAAATATTGAATCAY
112501 P C S ATGACGTGGCAGACGTAACAGCAGAAAAATATTGAATCY
112501 T T S AGCTTGATTCAATATTTTTCTGCTGTTATAGGCACACATCTTCCCGCCTGGACTTT
112501 T C S AGCTTGATTCAATATTTTTCTGCTGTTACAGGCACACATCTTCCCGCCTGGACTTT
112501 IS [TC] CCTAATTAACATTTCCTATGTTTGAATATTTAGGTTGATTCAATATTTTCTGCTGTTA[TC]AGGCACACATCTTCCCGCCTGGACTTTTTTTTCCTTTATTGAATGAGCTAGTATTTTAAC
112510 I A GGGTAAACATCCTGAAGAACCCTCAGTTTGTCTTTGACATA
112510 P T A CGCGCCGAGGTAAGAAGACACCACATATAGACY
112510 P C A ATGACGTGGCAGACAAGAAGACACCACATATAGAY
112510 T T A AGCCGTCTATATGTGGTGTCTTCTTAATGTCAAAGACAAACTGAGGGTTCTTCAGGATGTTTACCCAG
112510 T C A AGCCGTCTATATGTGGTGTCTTCTTGATGTCAAAGACAAACTGAGGGTTCTTCAGGATGTTTACCCAG
112510 IS [TC] CAGCCTTCCTCTCGCTTCTGGGTAAACATCCTGAAGAACCCTCAGTTTGTCTTTGACAT[TC]AAGAAGACACCACATATAGACGGCTGTTTGTCAGTGATTGCCCAGGCATTCATGGATGCA
112520 I A ATCAAGTAATGAAATAATTAGAATGCTTTGTCATCTTTAGCAGGATTTATAATTATTTGTA
112520 P T A CGCGCCGAGGTACTTCATCTCTCACTGTAGATY
112520 P C A ATGACGTGGCAGACCACTTCATCTCTCACTGTAGY
112520 T T A TCAAATCTACAGTGAGAGATGAAGTAACAAATAATTATAAATCCTGCTAAAGATGACAAAGCATTCTAATTATTTCATTACTTGAT
112520 T C A TCAAATCTACAGTGAGAGATGAAGTGACAAATAATTATAAATCCTGCTAAAGATGACAAAGCATTCTAATTATTTCATTACTTGAT
112520 IS [TC] ATCAAGTAATGAAATAATTAGAATGCTTTGTCATCTTTAGCAGGATTTATAATTATTTGT[TC]ACTTCATCTCTCACTGTAGATTTGATACTTCTTAACTTAAAATCAGCCCCAAACATTATC
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112521 P T A CGCGCCGAGGTGATGACTACTGATGTGGTY
112521 P C A ATGACGTGGCAGACCGATGACTACTGATGTGGY
112521 T T A TGGCACCACATCAGTAGTCATCATTGCTGGCTCCCTCTTAGATTCTTGTACCAAGCTTCTT
112521 T C A TGGCACCACATCAGTAGTCATCGTTGCTGGCTCCCTCTTAGATTCTTGTACCAAGCTTCTT
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112528 P T S CGCGCCGAGGAAGCTAGCAAATTAAACCATAAY
112528 P C S ATGACGTGGCAGACGAGCTAGCAAAATTAAACCATAAY
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112536 P A A CGCGCCGAGGATAGGAACTTTATACCAAGCCY
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112536 T A A ATGGGGCTTGGTATAAAGTTCCTATTTCCACCCTGATACTTCCAATTCCTGGAACCCCAG
112536 T G A ATGGGGCTTGGTATAAAGTTCCTACTTCCACCCTGATACTTCCAATTCCTGGAACCCCAG
112536 IS [AG] TAGGGAGGAGGGATGGGGGAGTGGGCTGGGGTTCCAGGAATTGGAAGTATCAGGGTGGAA[AG]TAGGAACTTTATACCAAGCCCCATGACCAGCTGTGCTTCAAGTGAGTTTTAAAATTAATT
112539 I A ATTATATAAAACAAAAAATCAATATGAACAAATGAAAAATGTAAAAAGTAAAAACAAACT[AC]TCAGGTGTCAATAAAGGCTATGAATGTCTATAAATGCAATTCAAATATTCAAGTAGAGG
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112539 P C A ATGACGTGGCAGACCTCAGGTGTCAATAAAGCCY
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112539 T C A CATAGCCTTTATTGACACCTGAGAGTTTGTTTTTACTTTTACATTTTTCATTTGTTCATATTGATTTTTTGTTTTATATAAT
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112544 P C S ATGACGTGGCAGACGAGTCACATCCTCAATCCY
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112552 P T A CGCGCCGAGGTGTAGTTAGACAGATGACTGGY
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112555 I A ACTACTGATAAGAGTTAATAATGTATCCTAGTTTGTAATGTATTCTTTAGGAAAATTTAGTT
112555 P C A CGCGCCGAGGCTTATAACATAATTACCTGTTTGGCY
112555 P G A ATGACGTGGCAGACTTATAACATAATTACCTGTTTGGCY
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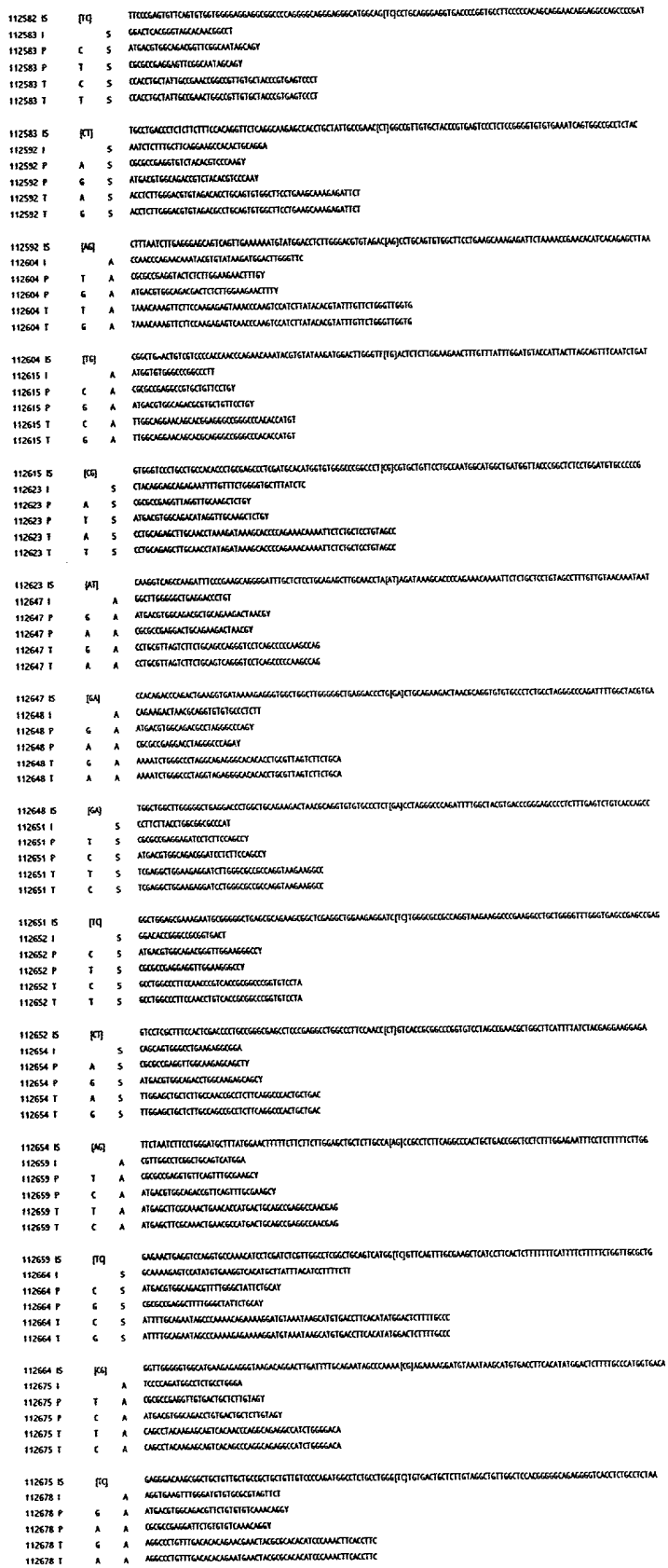


FIGURE 129G

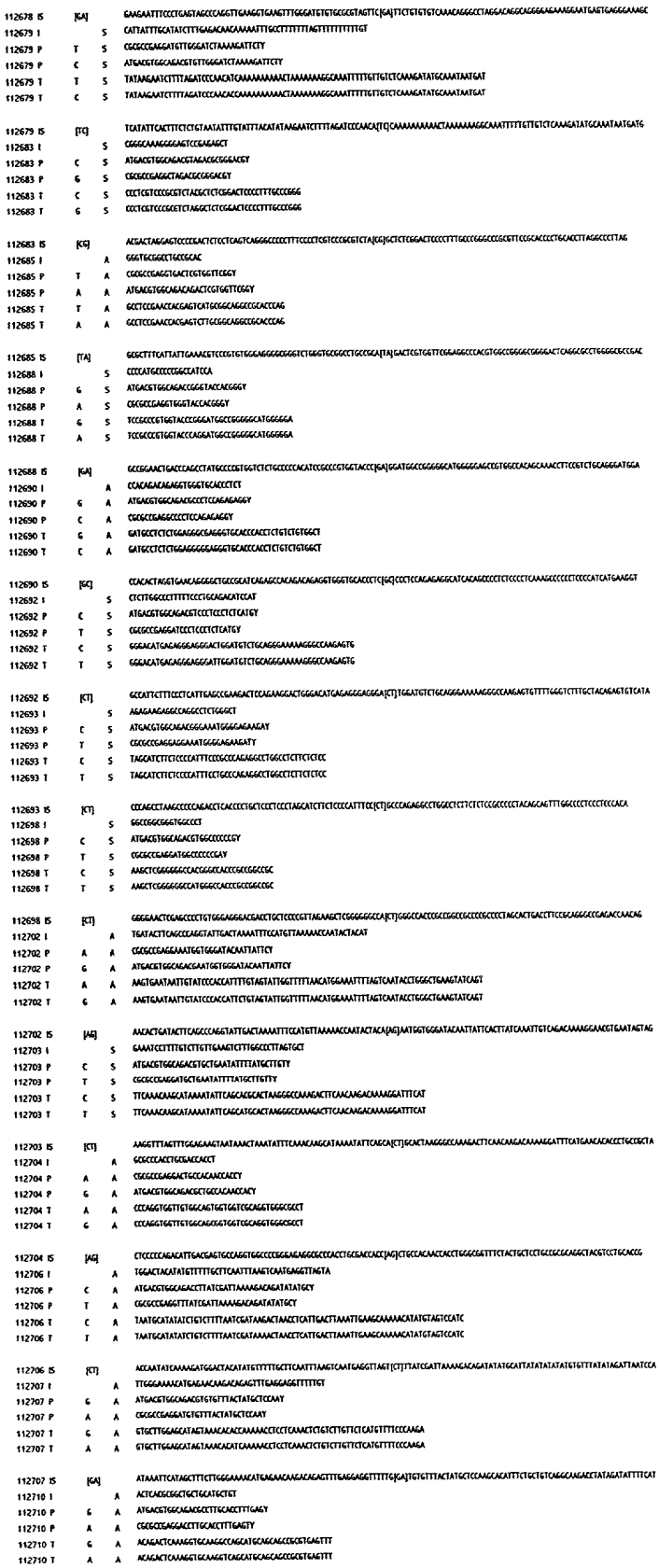
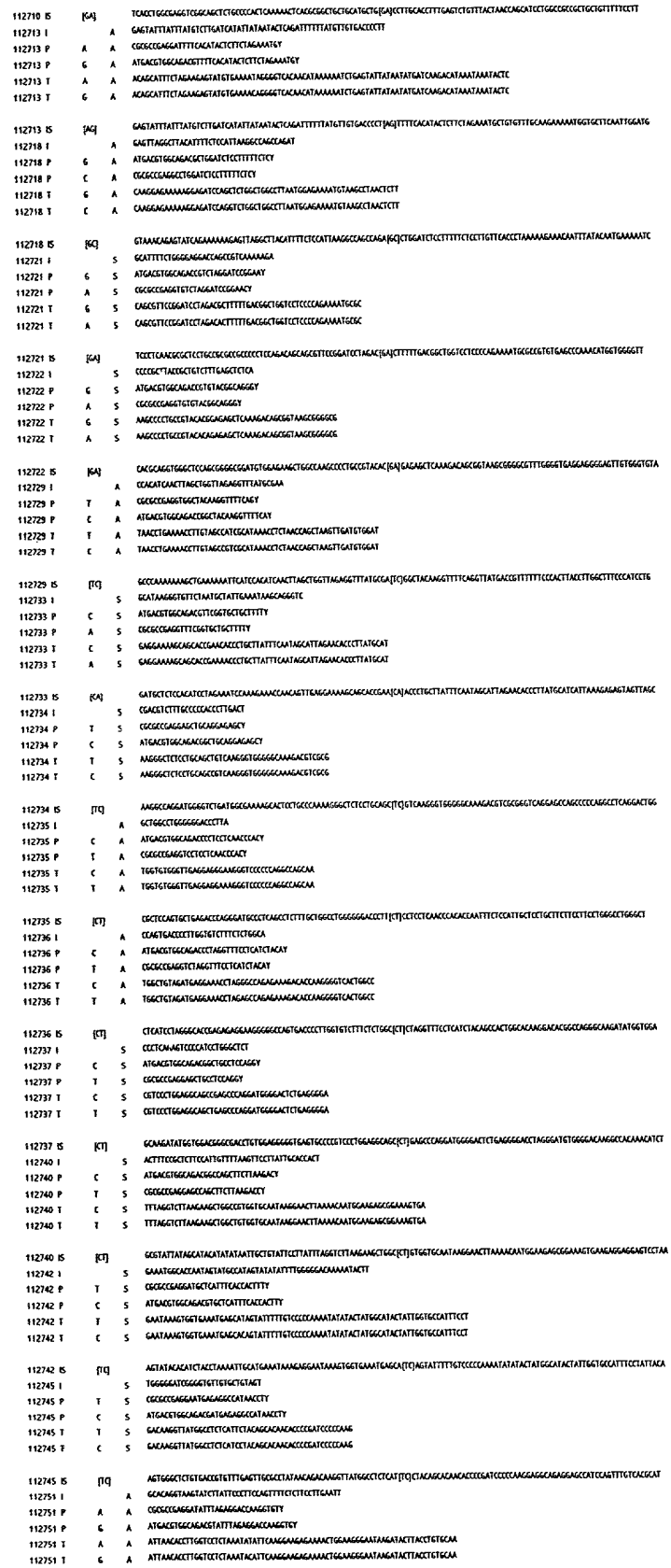

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FIGURE 129G



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FIGURE 129G

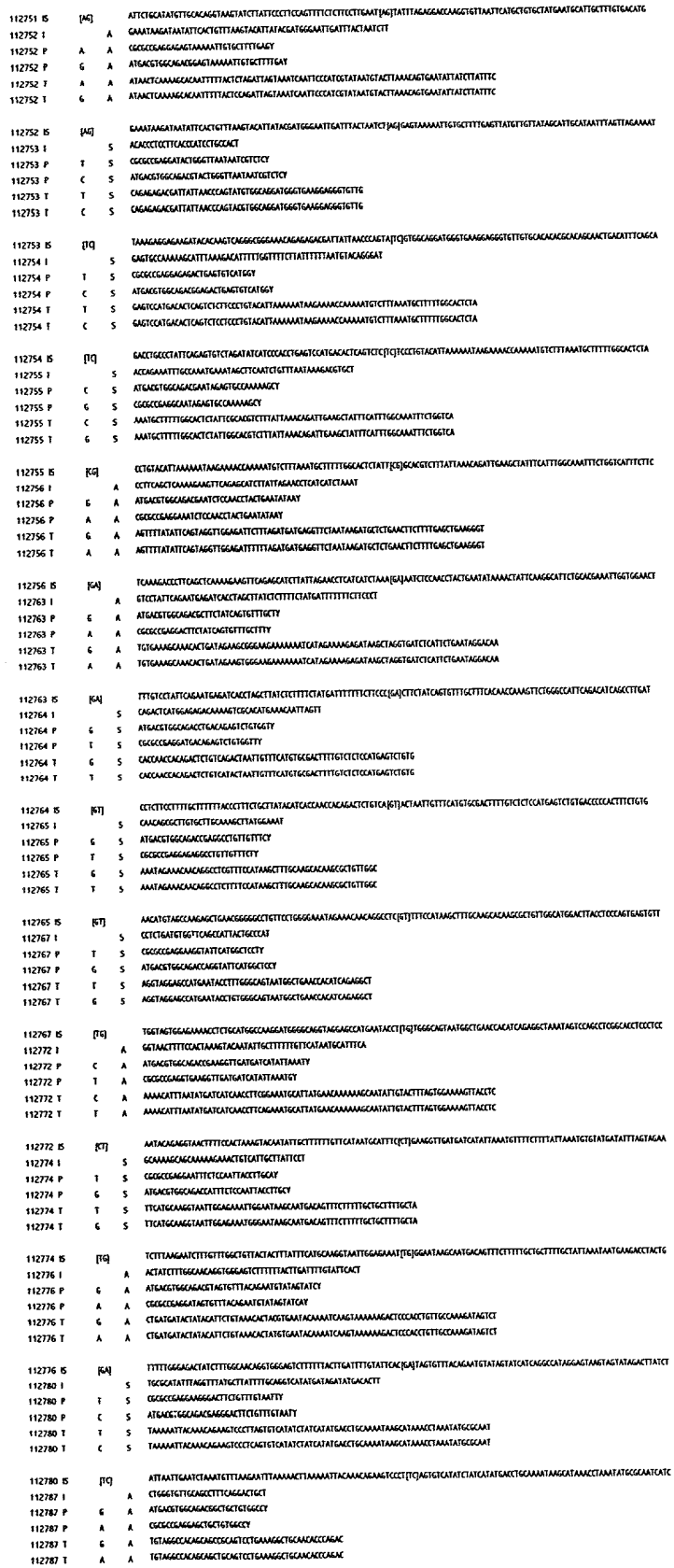
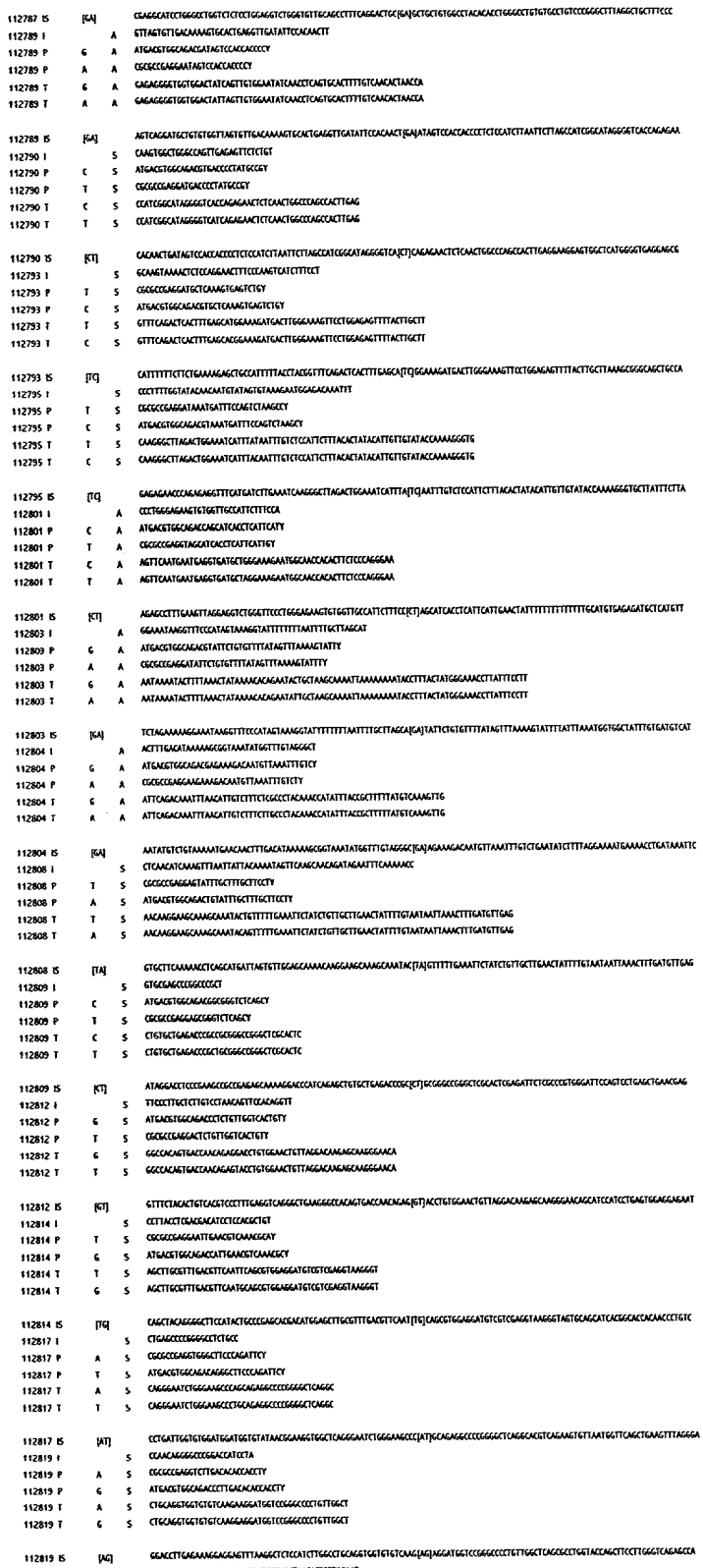

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112752 P G A ATGACGTGGCGAGACGGAGTAAAAATTGTGCTTTTGAT
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112752 T G A ATAACTCAAAAGCACAATTTTTACTCCAGATTAGTAAATCAATTCCCATCGTATAATGTACTTAAACAGTGAATATTATCTTATTTC
112752 15 [AG] GAAATAAGATAATATTCACTGTTTAAGTACATTATACGATGGGAATTGATTTACTAATCTJAGJGAGTAAAAATTGTGCTTTTGAGTTATGTGTTATAGCATTGCATAATTTAGTTAGAAAAT
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112753 T T S CAGAGAGACGATTATTAACCCAGTATGTGGCAGGATGGGTGAAGGAGGGTGTTG
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112753 15 [TC] TAAAGAGGAGAAGATACACAAGTCAGGGCGGGAAACAGAGAGACGATTATTAACCCAGTAJTCJGTGGCAGGATGGGTCAAGGAGGGTGTTGTGCACACACGCACAGCAACTGACATTTCAGCA
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112754 T C S GAGTCCATGACACTCAGTCTCTTCCCTGTACATTAAAAAATAAGAAAACCAAAAATGTCTTTAAATGCTTTTTGGCACTCTA
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112756 T A A AGTTTTATATTCAGTAGGTTGGAGATTTTTTAGATGATGAGGTTCTAATAAGATGCTCTGAACTTCTTTTGAGCTGAAGGGT
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112763 1 A GTCCTATTCAGAATGAGATCACCTAGCTTATCTCTTTCTATGATTTTTTTCTTCCCT
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112763 P A A CGCGCCGAGGACTTCTATCAGTGTTTGCTTTY
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112764 T G S CACCAACCACAGACTCTGTCAGACTAATTGTTTCATGTGCGACTTTTGTCTCTCCATGAGTCTGTG
112764 T T S CACCAACCACAGACTCTGTCATACTAATTGTTTCATGTGCGACTTTTGTCTCTCCATGAGTCTGTG
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112787 P G A ATGACGTGGCAGACGGCTGCTGTGGCCY
112787 P A A CGCGCCGAGGAGCTGCTGTGGCCY
112787 T G A TGTAGGCCACAGCAGCCGCAGTCCTGAAAGGCTGCAACACCCAGAC
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FIGURE 129G



Confidential Property of Applera Corporation

FIGURE 129G

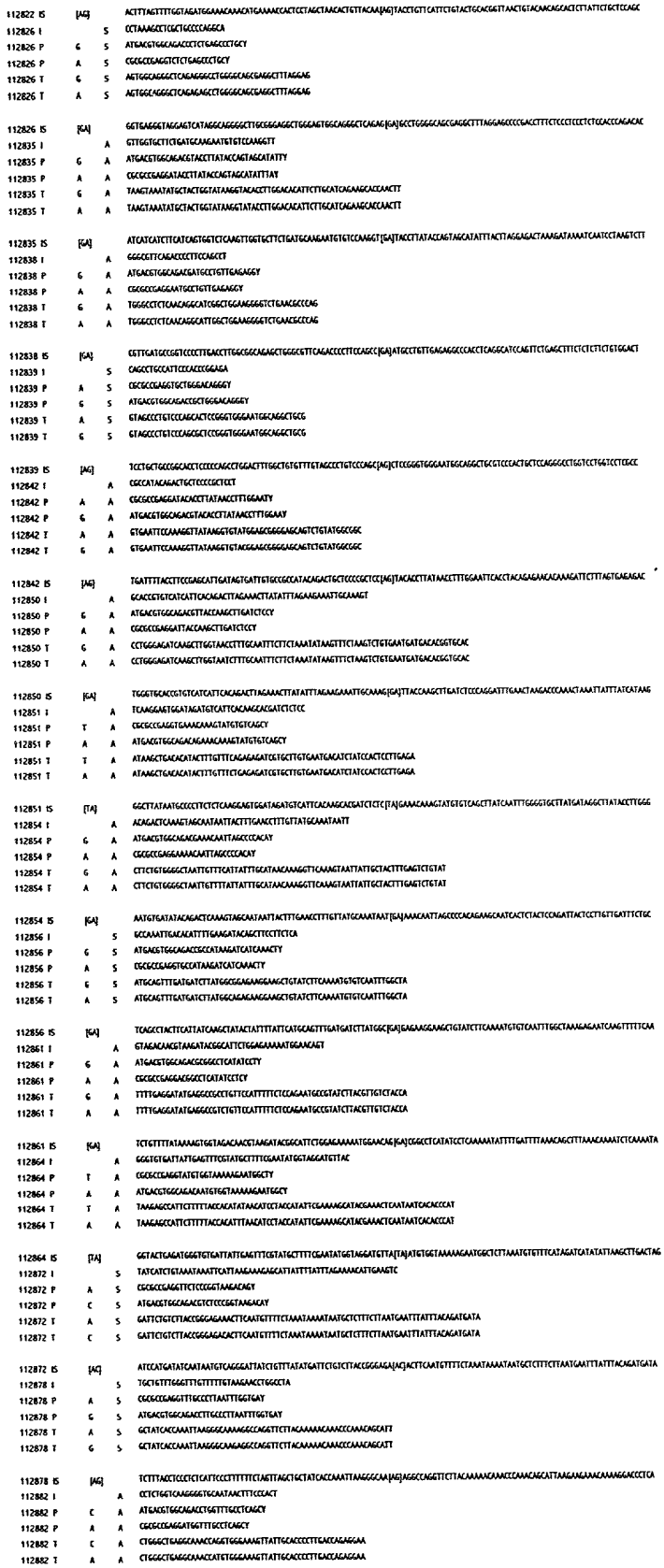
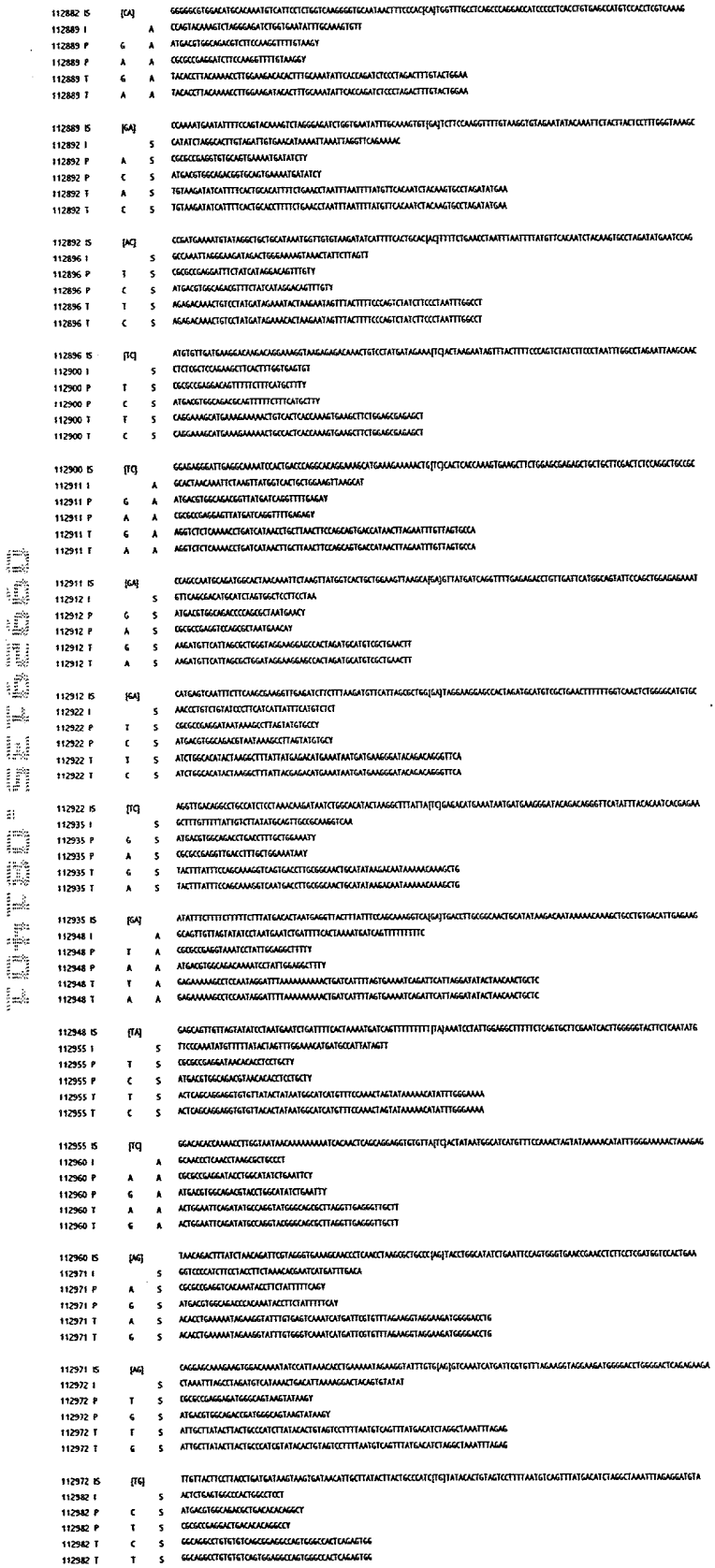
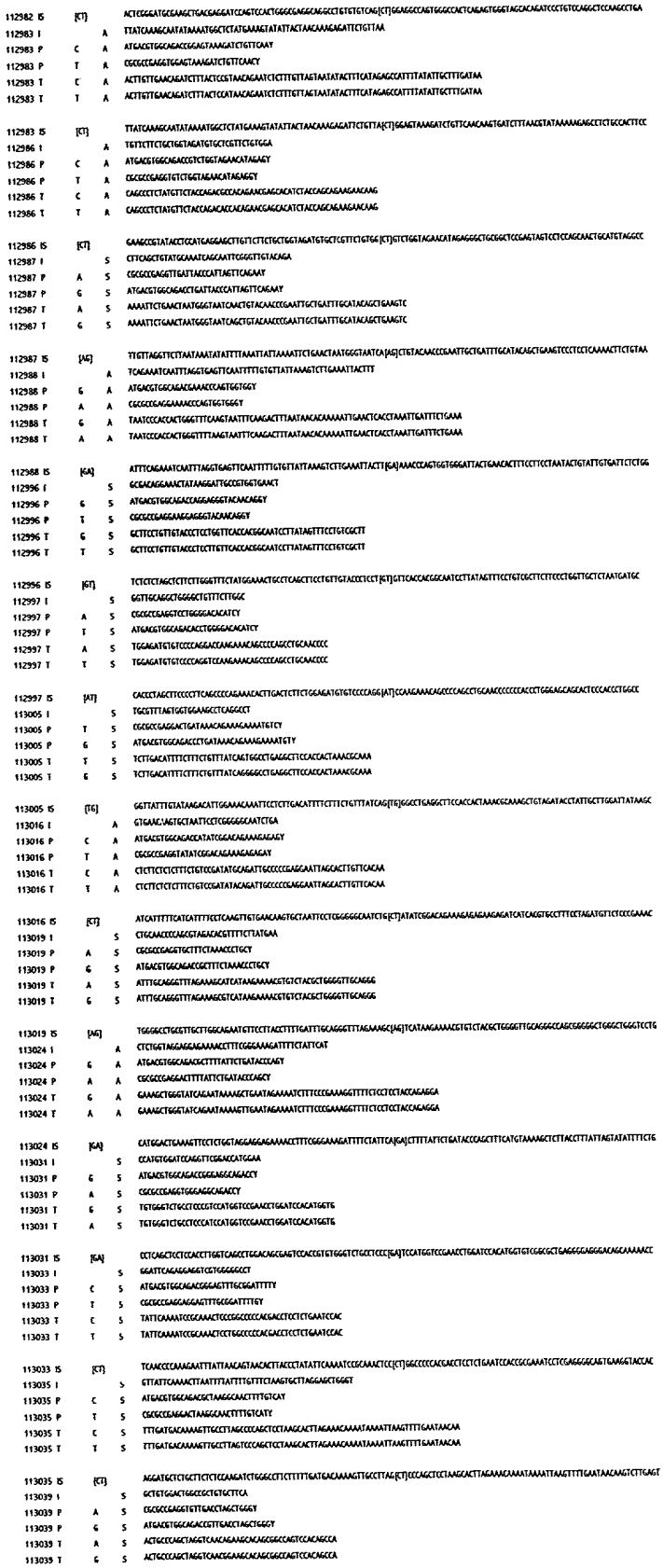
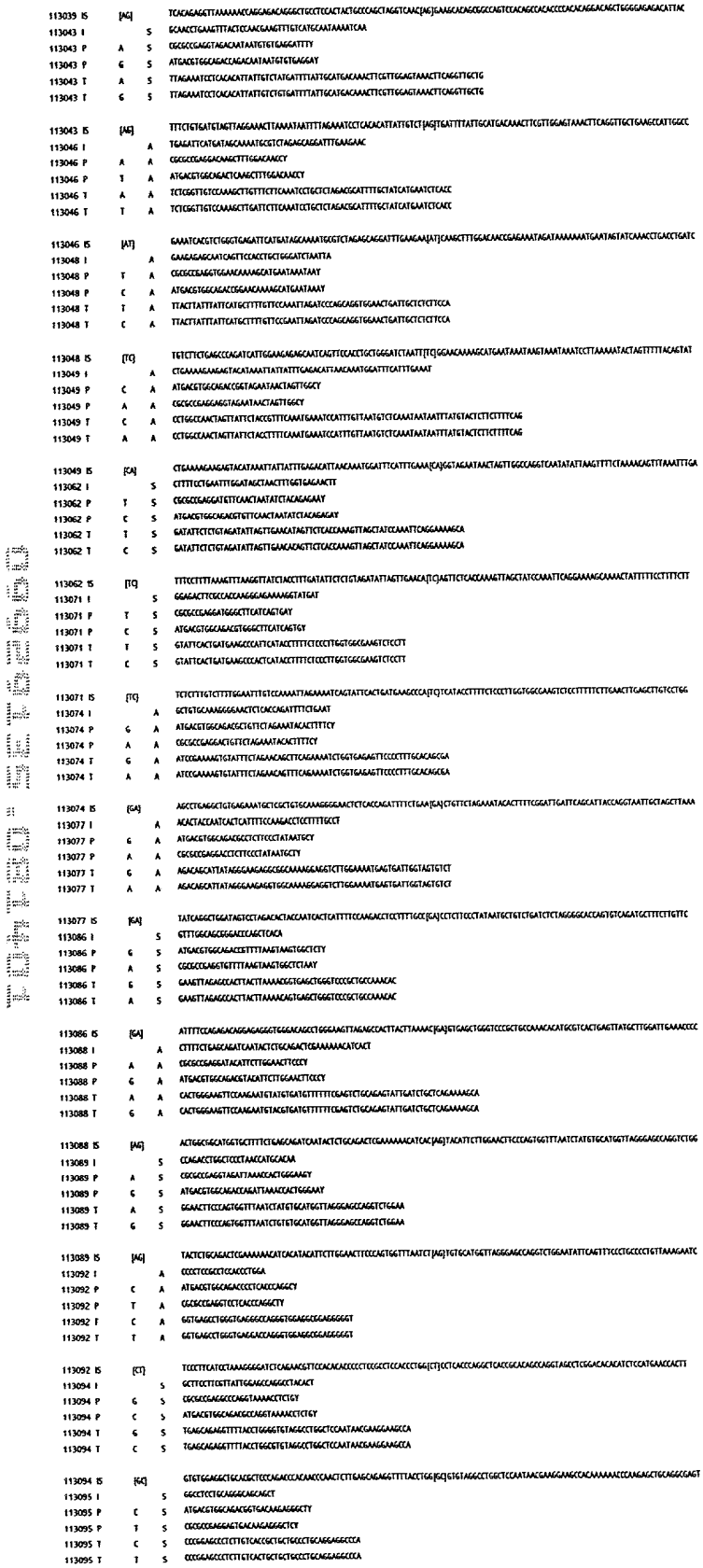

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112826 T G S AGTGGCAGGGCTCAGAGGGCCTGGGGCAGCGAGGCTTTAGGAG
112826 T A S AGTGGCAGGGCTCAGAGAGCCTGGGGCAGCGAGGCTTTAGGAG
112826 IS [GA] GGTGAGGGTAGGAGTCATAGGCAGGGGCTTGCGGGAGGCTGGGAGTGGCAGGGCTCAGAG[GA]GCCTGGGGCAGCGAGGCTTTAGGAGCCCCGACCTTTCTCCCCTCCCTCTGCACCCAGACAC
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112835 P A A CGCGCCGAGGATACCTTATACCAGTAGCATATTTAY
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112835 T A A TAAGTAAATATGCTACTGGTATAAGGTATACCTTGGACACATTCTTGCATCAGAGCACCAACTT
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112838 P G A ATGACGTGGCAGACGATGCCTGTTGAGAGGY
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112838 T G A TGGGCCTCTCAACAGGCATCGGCTGGAAGGGGTCTGAACGCCCAG
112838 T A A TGGGCCTCTCAACAGGCATTGGCTGGAAGGGGTCTGAACGCCCAG
112838 IS [GA] CGTTGATGCCGGTCCCCTTGACCTTGGCGGCAGAGCTGGGCGTTCAGACCCCTTCCAGCC[GA]ATGCCTGTTGAGAGGCCCACCTCAGGCATCCAGTTCTGAGCTTTCTCTTCTCTGTGGACT
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112872 P C S ATGACGTGGCAGACGTCTCCCGGTAAGACAY
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112878 P A S CGCGCCGAGGTTTGCCCTTAATTTGGTGAY
112878 P G S ATGACGTGGCAGACCTTGCCCTTAATTTGGTGAY
112878 T A S GCTATCACCAAATTAAGGGCAAAAGGCCAGGTTCTTACAAAAACAAACCCAAACAGCATT
112878 T G S GCTATCACCAAATTAAGGGCAAGAGGCCAGGTTCTTACAAAAACAAACCCAAACAGCATT
112878 IS [AG] TCTTTAGCTCCCTCTCATTCCCTTTTTTCTAGTTAGCTGCTATCACCAAATTAAGGGCAA[AG]AGGCCAGGTTCTTACAAAAACAAACCCAAACAGCATTAAGAAGAAACAAAAGGACCCTCA
112882 I A CCTCTGGTCAAGGGGTGCAATAACTTTCCCACT
112882 P C A ATGACGTGGCAGACCTGGTTTGCCTCAGCY
112882 P A A CGCGCCGAGGATGGTTTGCCTCAGCY
112882 T C A CTGGGCTGAGGCAAACCAGGTGGGAAAGTTATTGCACCCCTTGACCAGAGGAA
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FIGURE 129G







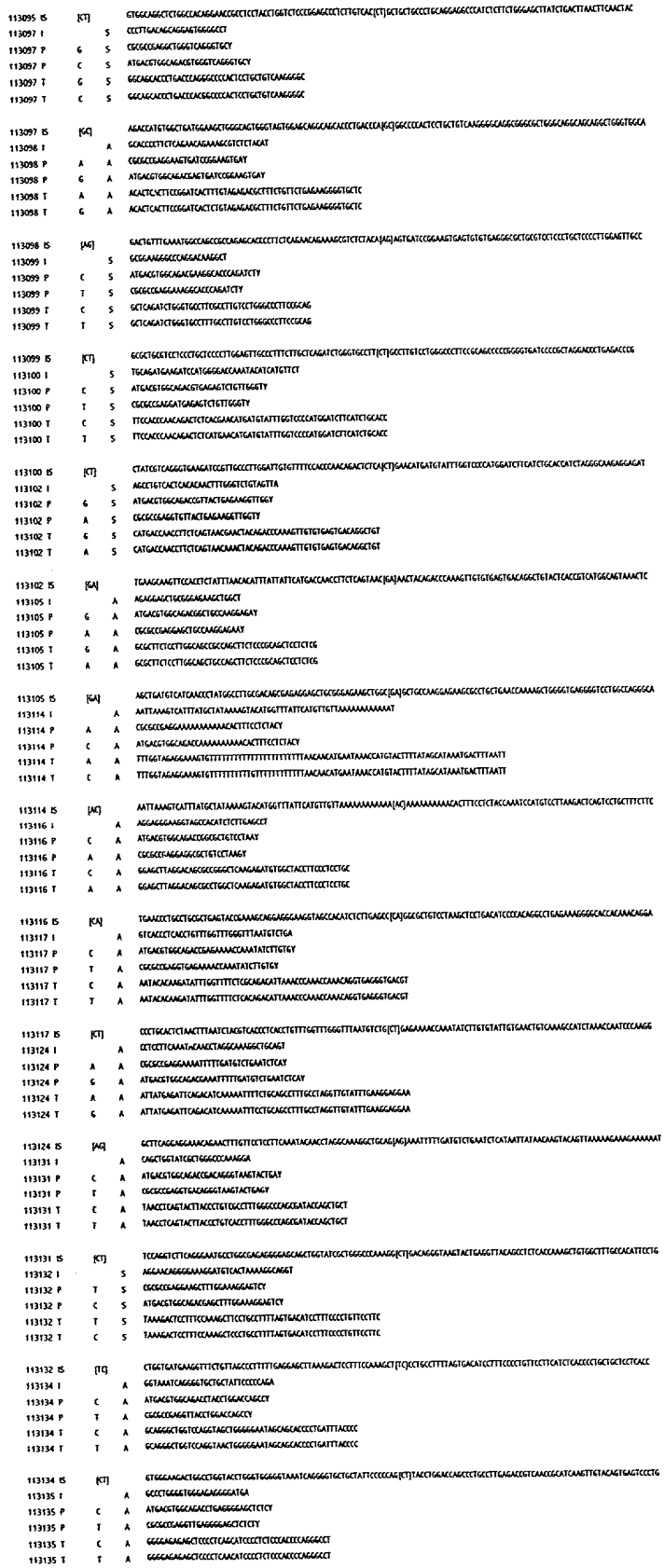
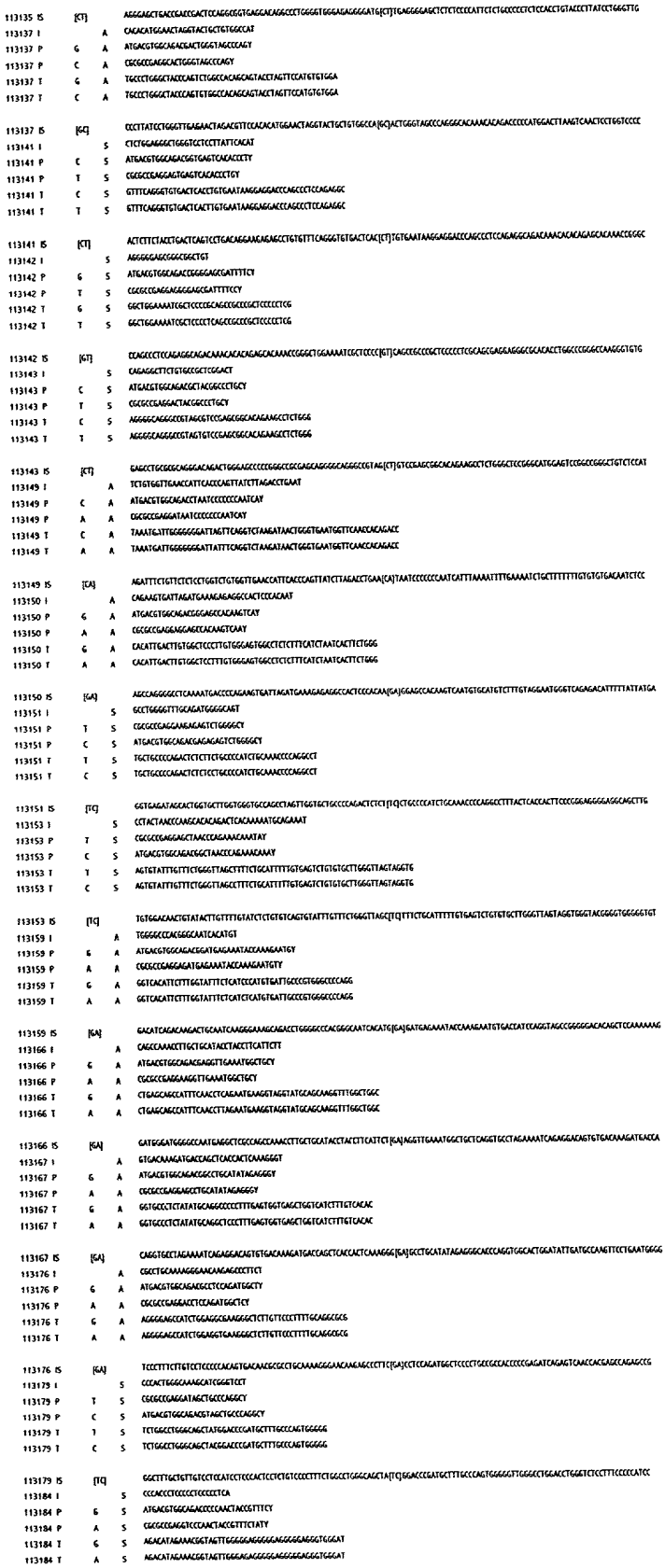
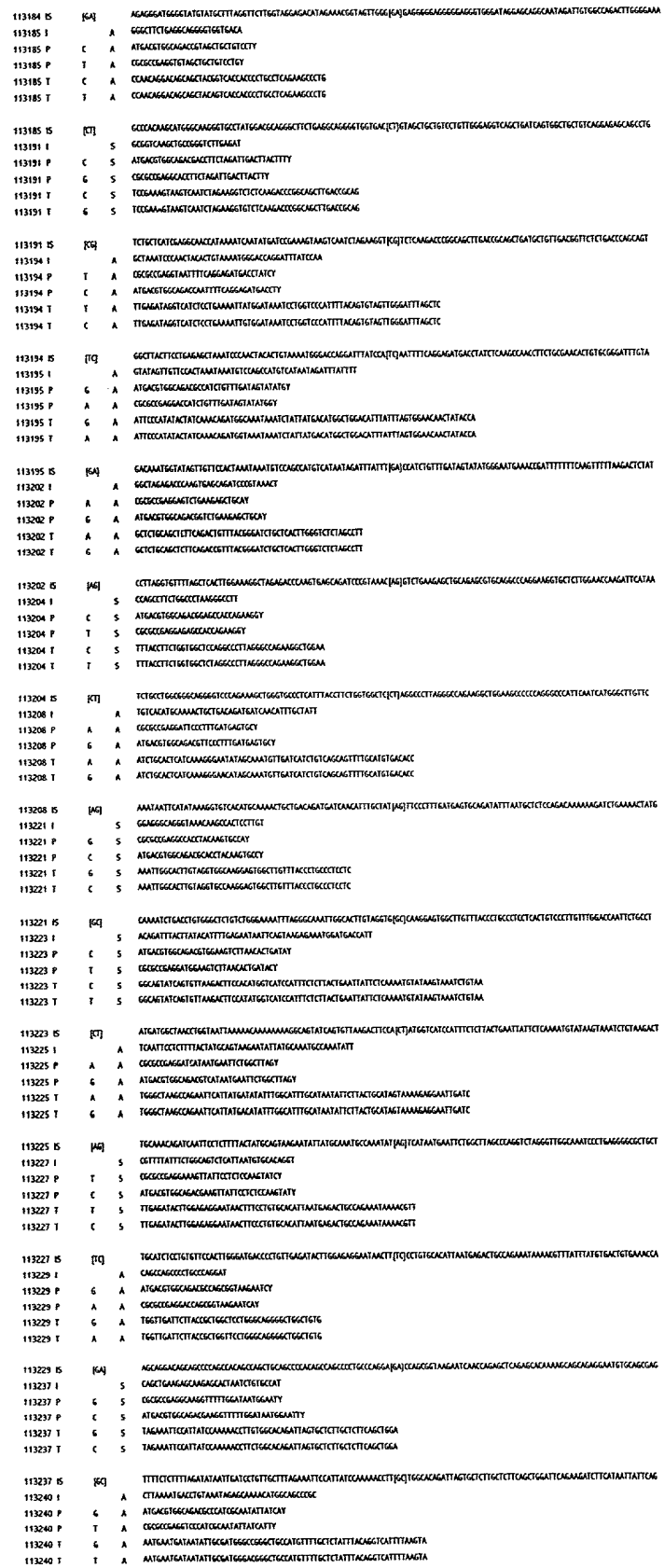


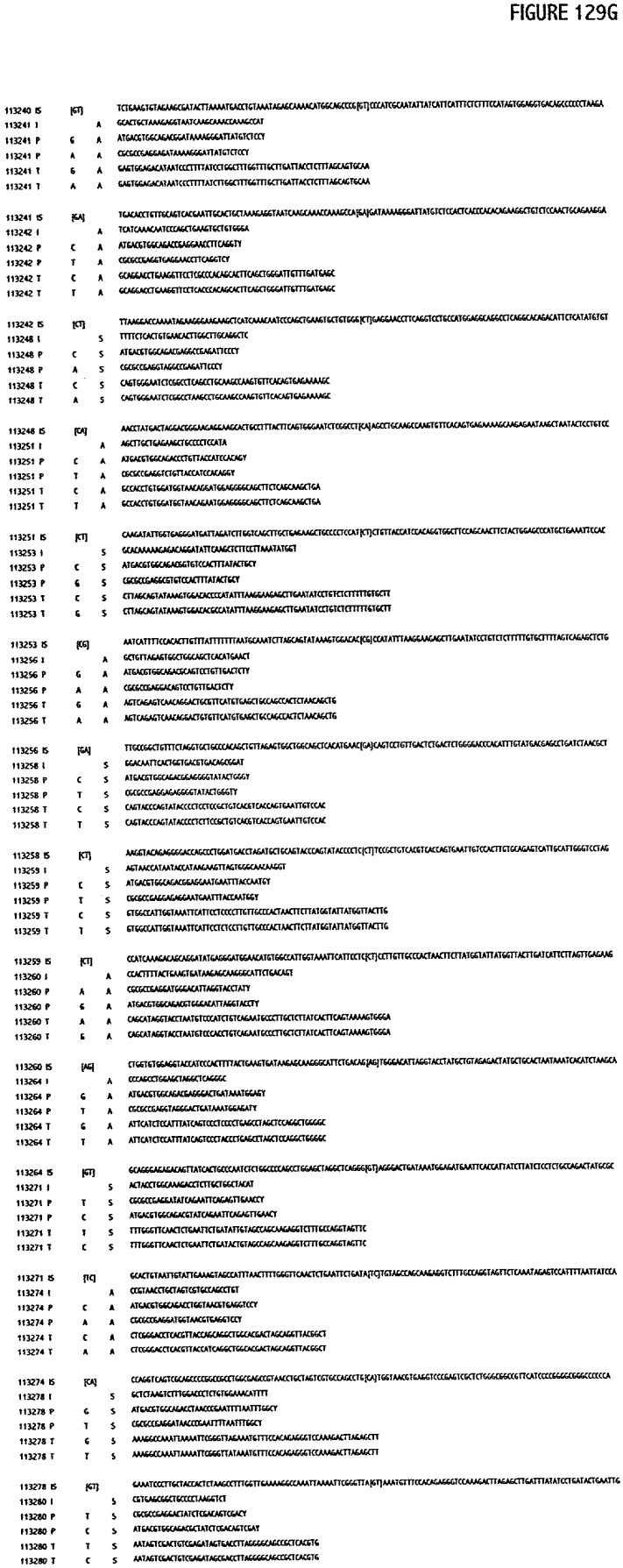
FIGURE 129G

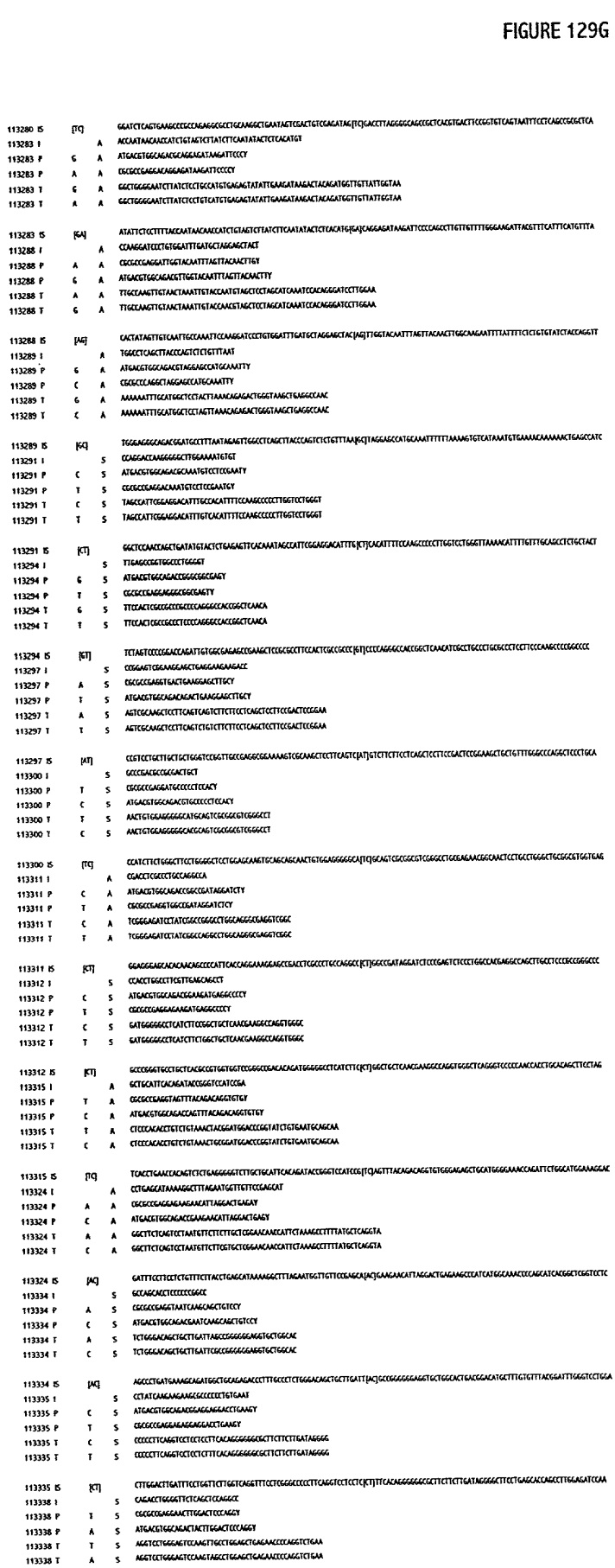


UNDER SEAL PURSUANT TO 35 USC 122

FIGURE 129G







Unpublished U.S. Patent Application

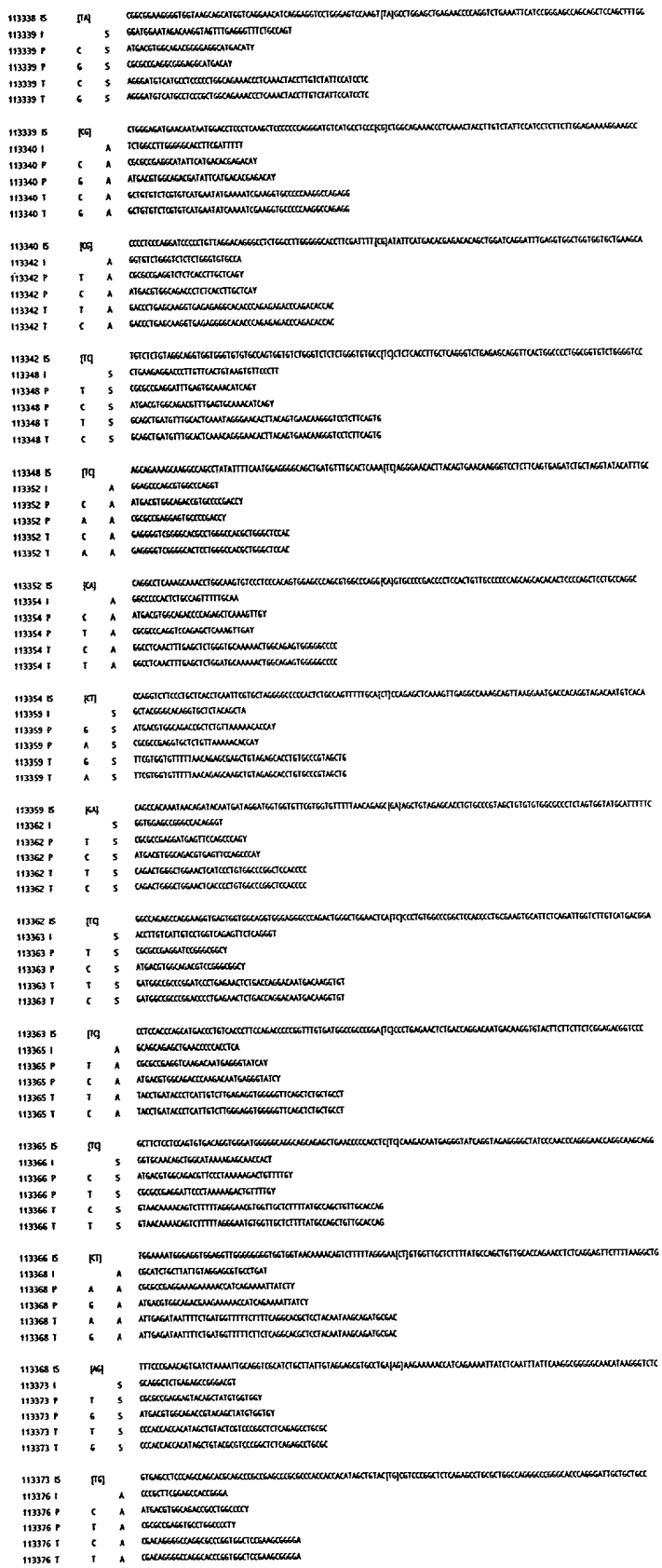


FIGURE 129G

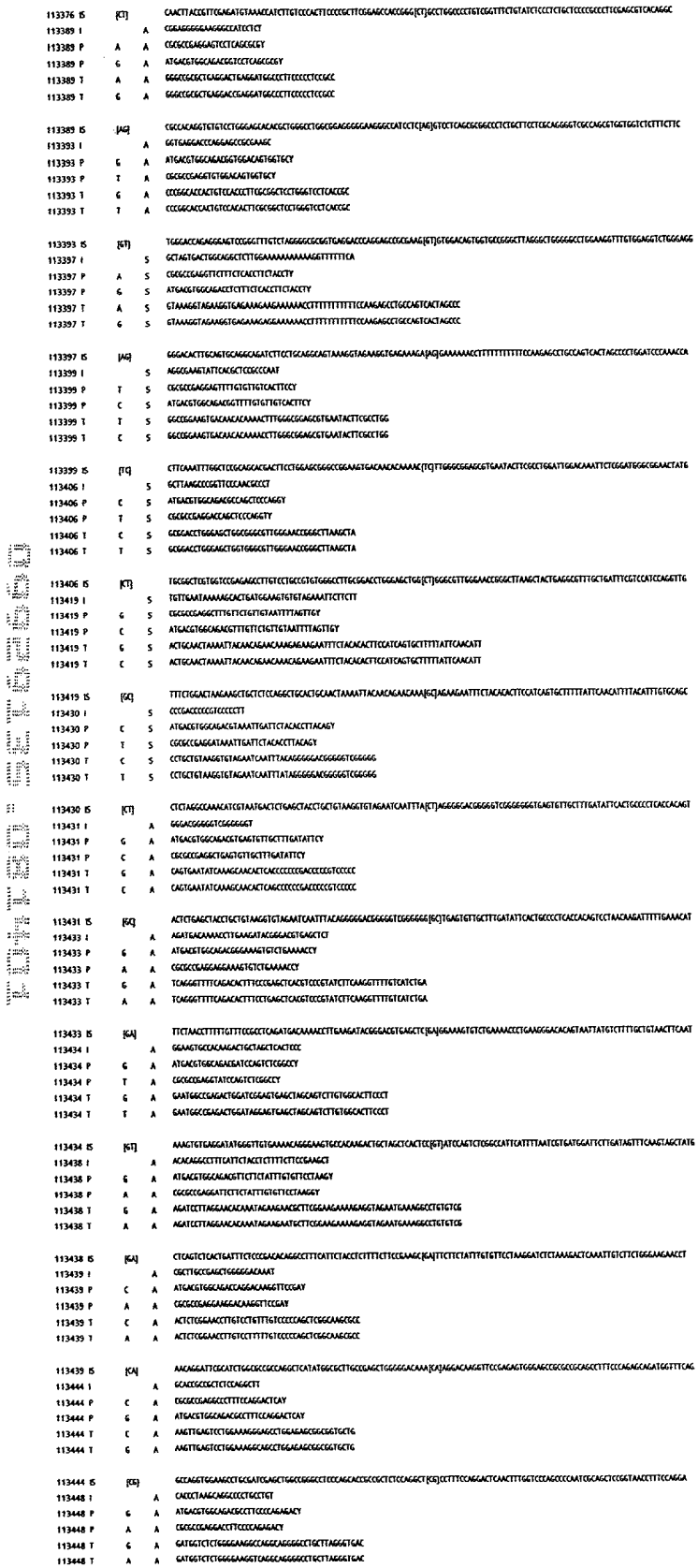


FIGURE 129G

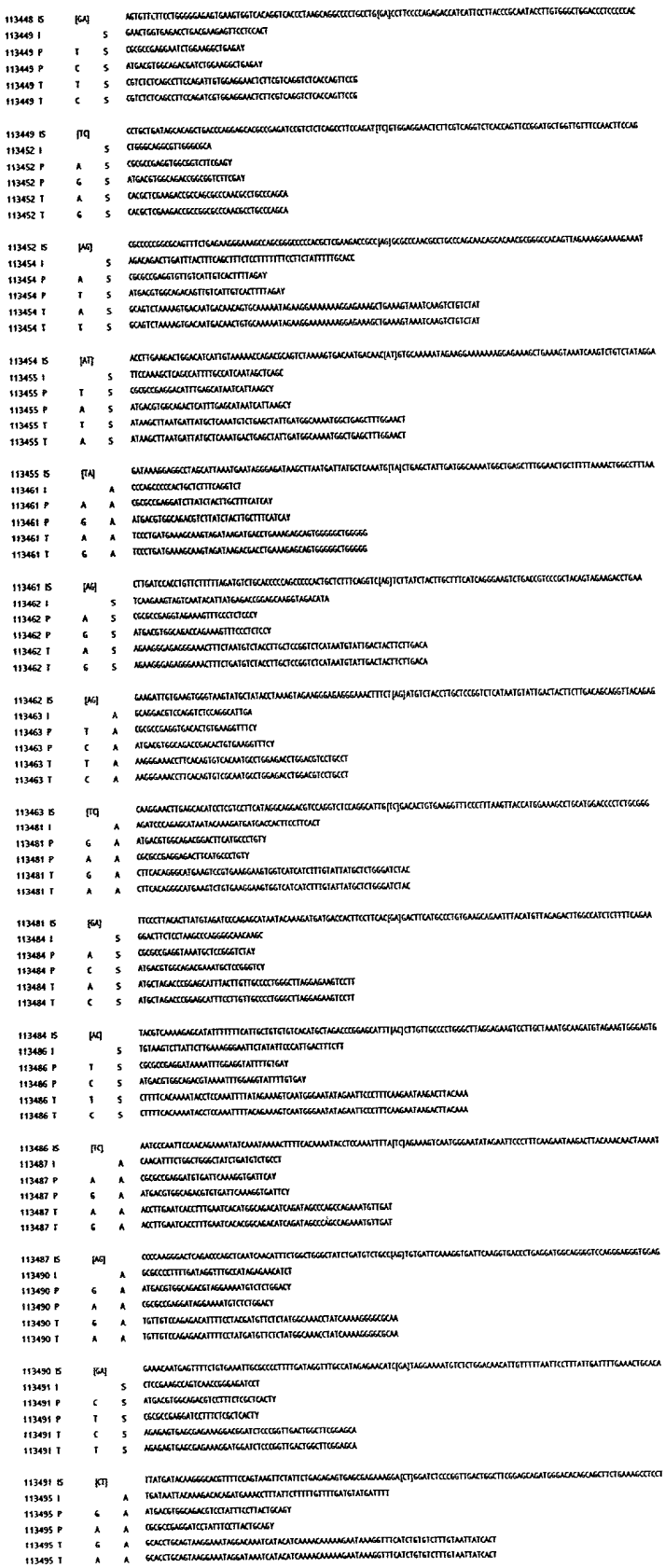


FIGURE 129G

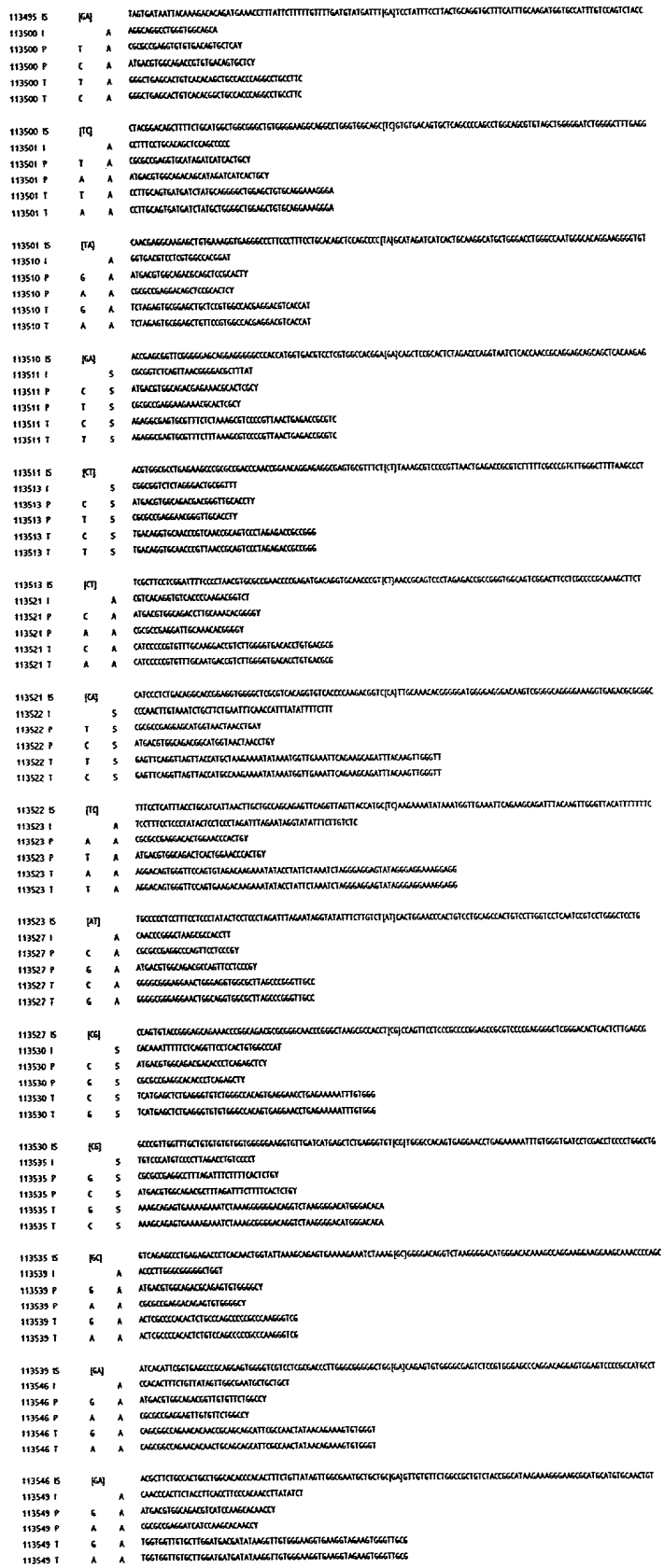
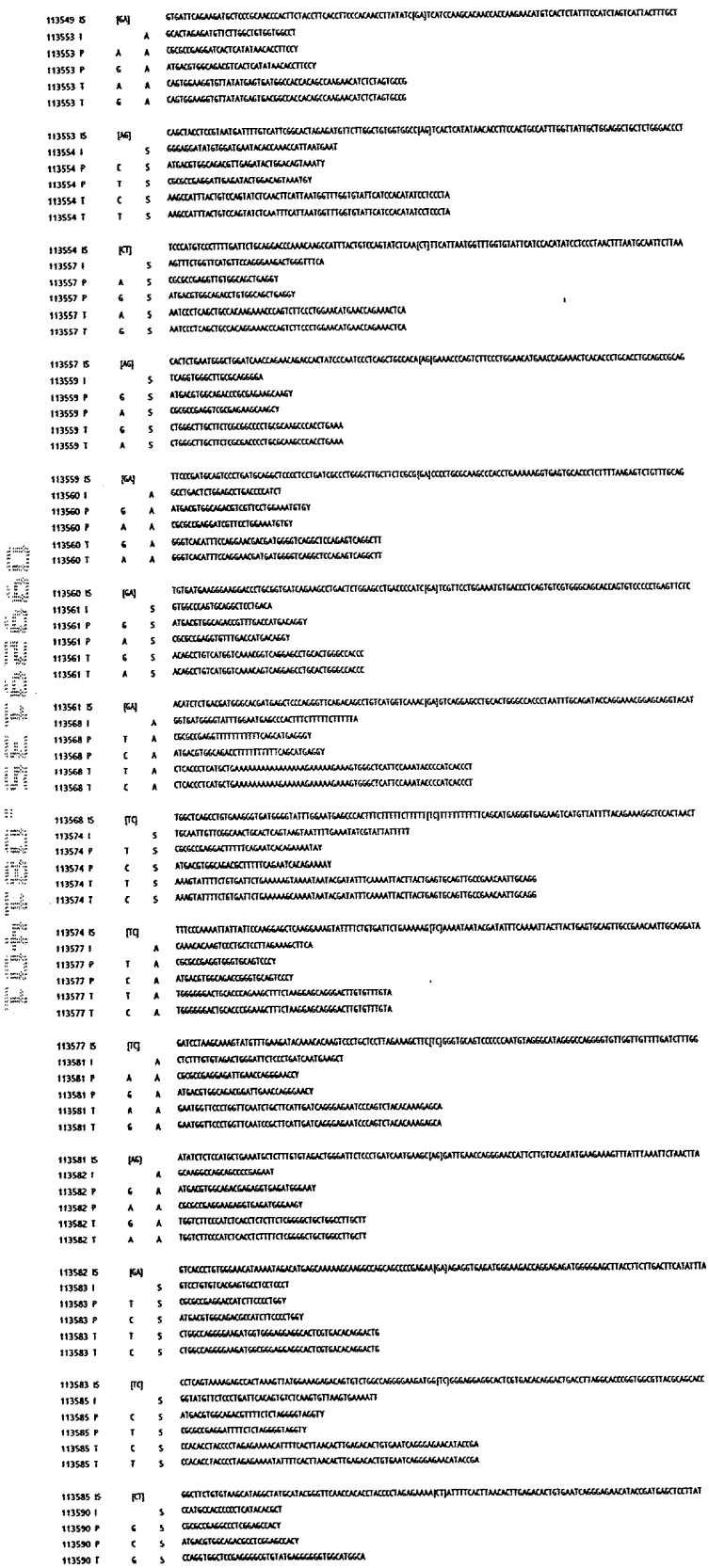


FIGURE 129G



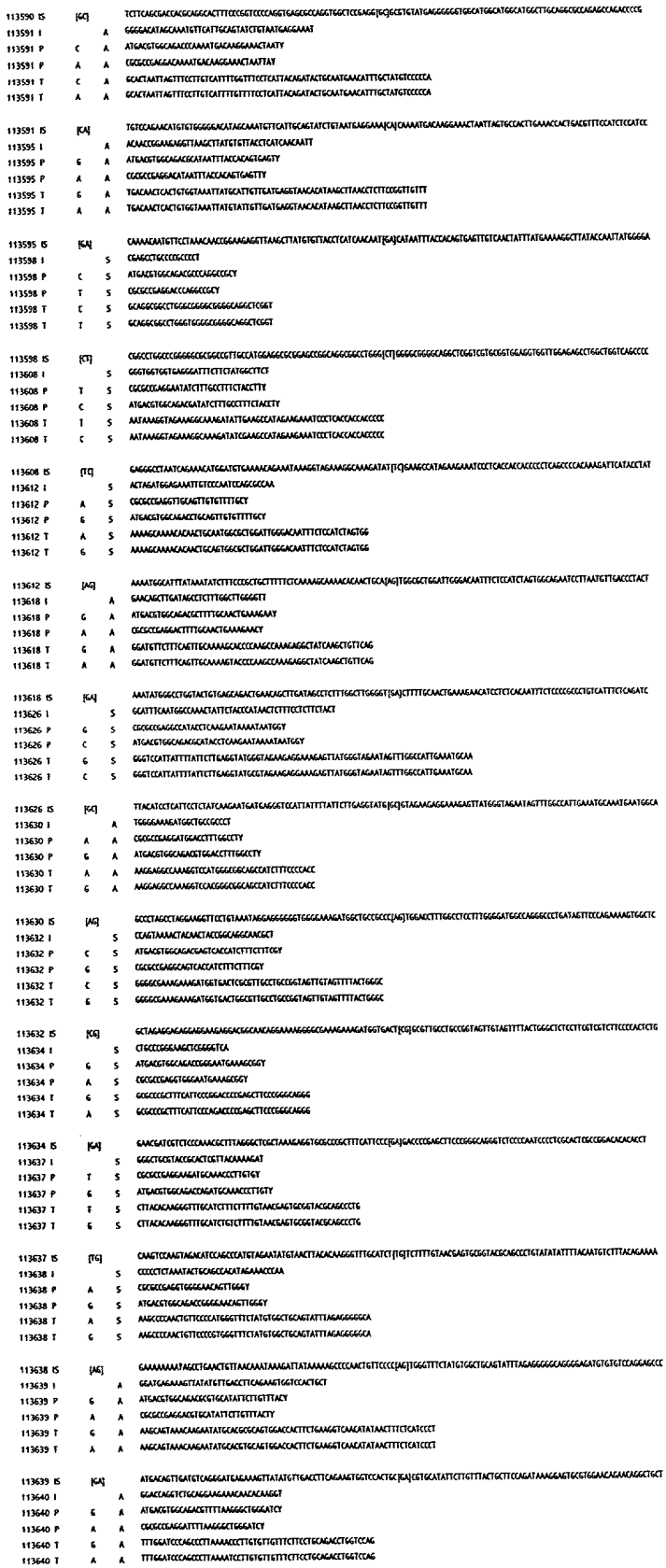
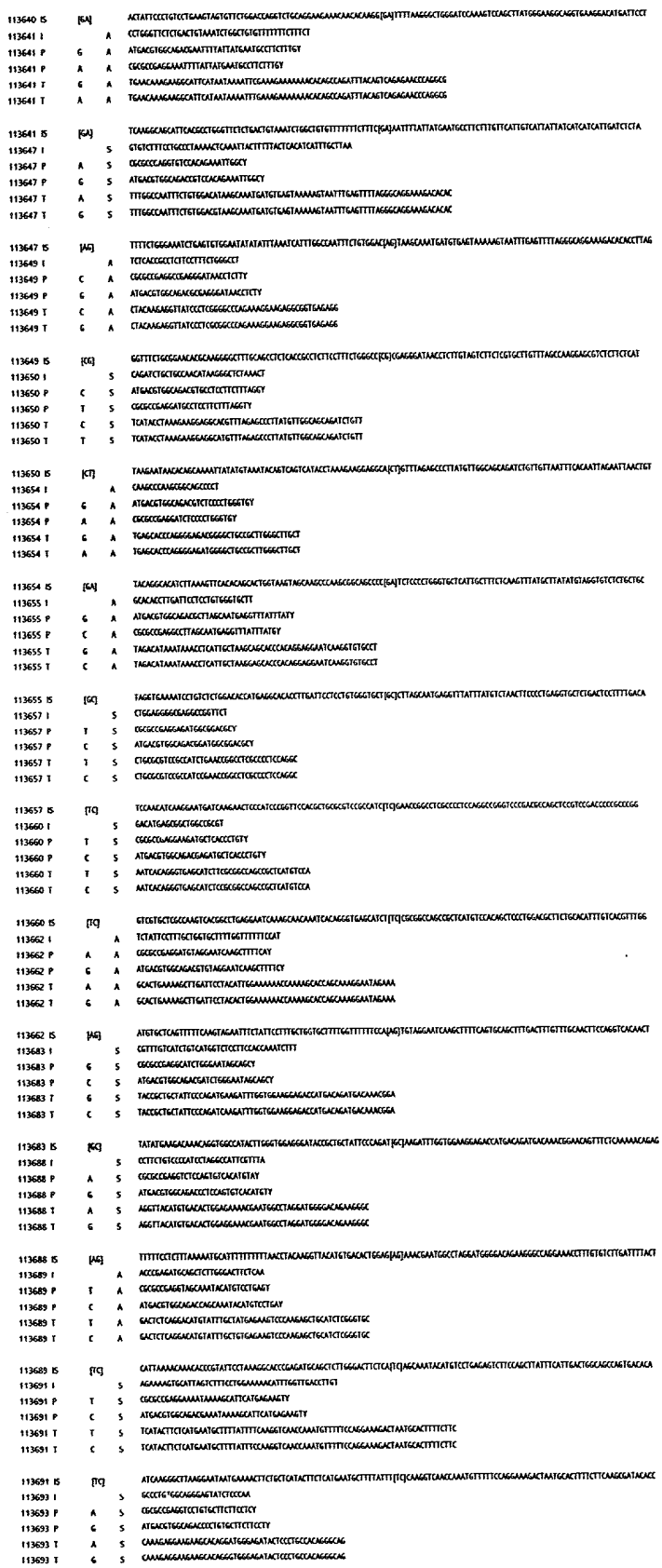
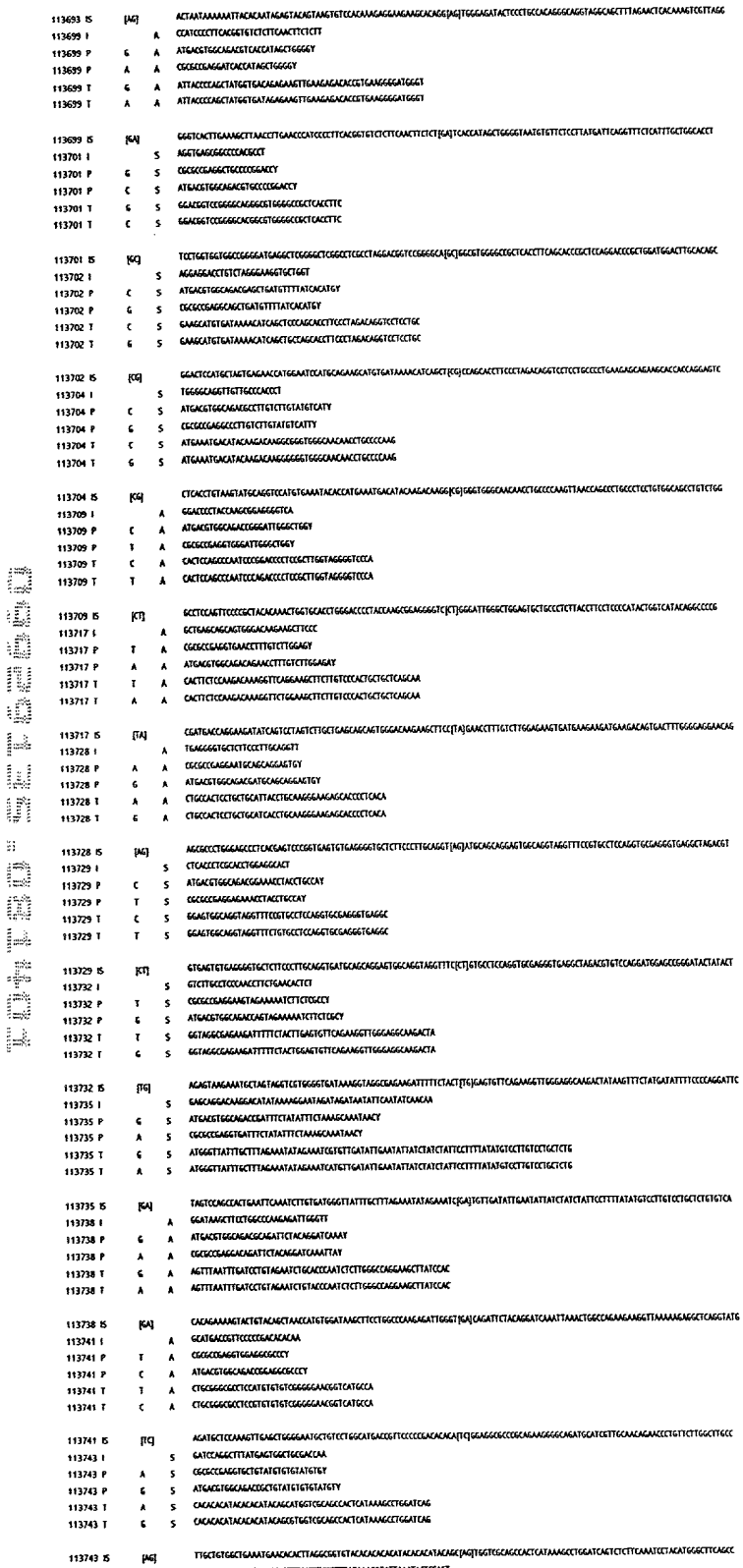


FIGURE 129G



Applicant's Docket No. 10005.0001.PCUS00

FIGURE 129G



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113745 P     T   S     CGCGCCGAGGACTTTAAAATGGGTACCTCTTTY
113745 P     G   S     ATGACGTGGCAGACCCTTTAAAATGGGTACCTCTTY
113745 T     T   S     AAGCAAAGAGGTACCCATTTTAAAGTAGCAATTTAAATGCTGAAAAGTTACGTCATTCATGCCACAATTTCCTA
113745 T     G   S     AAGCAAAGAGGTACCCATTTTAAAGGAGCAATTTAAATGCTGAAAAGTTACGTCATTCATGCCACAATTTCCTA

113745 IS    [TG]      TAGTGGGGCAAGTCCATTTTTAAAAATAGGTTATAAAGCAAAGAGGTACCCATTTTAAAG[TG]AGCAATTTAAATGCTGAAAAGTTACGTCATTCATGCCACAATTTCCTATCAGTTTCTTCT
113746 I         A     AGTTTCTTCTAGCATAGGATAGAGTTAACTCACCAGATT
113746 P     G   A     ATGACGTGGCAGACGTCAGATCTTAGTACAACTTCGY
113746 P     A   A     CGCGCCGAGGATCAGATCTTAGTACAACTTCGY
113746 T     G   A     TGAACGAAGTTGTACTAAGATCTGACATCTGGTGAGTTAACGTCTATCCTATGCTAGAAGAAACTGA
113746 T     A   A     TGAACGAAGTTGTACTAAGATCTGATATCTGGTGAGTTAACGTCTATCCTATGCTAGAAGAAACTGA

113746 IS    [GA]      TTCATGCCACAATTTCCTATCAGTTTCTTCTAGCATAGGATAGACGTTAACTCACCAGAT[GA]TCAGATCTTAGTACAACTTCGTTCATTTAATCTTATCATTACACTAGCTACTTTATTTTT
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113749 P     T   S     CGCGCCGAGGATCCTACAGGGGAACACY
113749 P     C   S     ATGACGTGGCAGACGTCCTACAGGGGAACAY
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113749 T     C   S     TCTTGTGTTCCCCTGTAGGACCTGAATCCAGTTTGGCCCTGAGGCTGGTGA

113749 IS    [TC]      TGCCTTTTCCTTCACCTCAGAATGGAGATGGATGAAGGATTCTTGTGTTCCCCTGTAGGA[TC]CTGAATCCAGTTTGGCCCTGAGGCTGGTGAATGGAGGTGACAGGTGTCAGGGGCGAGTGG
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113755 P     A   A     CGGGCCGAGGATCTCTGGACATATTTTGTGTTY
113755 P     G   A     ATGACGTGGCAGACGTCTCTGGACATATTTTGTGTY
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113759 I         A     GCAGAAGGTAACGTCTACTATGGGGGATCCCTGTAGT
113759 P     A   A     CGGCCGAGGACTCATTACCCCCTGY
113759 P     G   A     ATGACGTGGCAGACGCTCATTACCCCCTY
113759 T     A   A     GGTGCAGGGGGGTAATGAGTCTACAGGGATCCCCCATAGTAGACGTTACCTTCTGCTA
113759 T     G   A     GGTGCAGGGGGGTAATGAGCCTACAGGGATCCCCCATAGTAGACGTTACCTTCTGCTA

113759 IS    [AG]      GAGTCAACCCTGGAGTCAACTGTAGCAGAAGGTAACGTCTACTATGGGGGATCCCTGTAG[AG]CTCATTACCCCCCTGCACCCCTAGGTTAATCTCTGATTCAGATGAGGTGCAGAGGGCATA
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113776 P     C   A     ATGACGTGGCAGACCCTATTCCCCCAGAAGAY
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113776 T     C   A     TTACCTCTTCTGGGGGAATAGGGCAGAGCAGAGGGGGTTGCAAATACCAG
113776 T     A   A     TTACCTCTTCTGGGGGAATAGTGCAGAGCAGAGGGGGGTTGCAAATACCAG

113776 IS    [CA]      ACAACCTTTCCAACACTTGTCTCCCCCAGCCTGGTATTTGCAACCCCCCTGTGCTGTGC[CA]CTATTCCCCCAGAAGAGGTAAGTGCTGTCCCTGGGCTGGGTGGGGGACTCTGGATTGGAC
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113779 P     G   A     ATGACGTGGCAGACGATTGATAATTTCCAGCACACY
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113790 P     A   A     CGCGCCGAGGACTTTGAGTTTCAGGTAGCY
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113791 I         A     TCCACATGTATTTAATCCCTTCTTGATGACCACACAT
113791 P     A   A     CGCGCCGAGGATATATTGCCCAACCTGGY
113791 P     G   A     ATGACGTGGCAGAGTATATTGCCCAACCTGGY
113791 T     A   A     AGTTCCAGGTTGGGCAATATATTGTGTGGTCATCAAGAAGGGATTAAATACATCTGGACA
113791 T     G   A     AGTTCCAGGTTGGGCAATATACTGTGTGGTCATCAAGAAGGGATTAAATACATGTGGACA

113791 IS    [AG]      GCTGATCTCGAGAATGTATTCTTGTCCACATGTATTTAATCCCTTCTTGATGACCACACA[AG]TATATTGCCCAACCTGCAACTTCAGCGTCAAACGGGGCATGGTGATGGTCCGGCTGGGCC
113794 I         S     TCTCTGCTGTAAGACCCAGCTTTTCCTGGAT
113794 P     T   S     CGCGCCGAGGAGATGGGCACTCTGGGY
113794 P     C   S     ATGACGTGGCAGACGGATGGGACTCTGGGY
113794 T     T   S     ACACCCAGAGTCCCATCTCCAGGAAAAGCTGGGGTCTTACAGCAGAGAGG
113794 T     C   S     ACACCCAGAGTCCCATCTCCAGGAAAAGCTGGGGTCTTACAGCAGAGAGG

113794 IS    [TC]      CCTGCCCAGCCCAGTGGGTGGCCTGACTCTGGTCAGCACACACACCCCAGAGTCCCATC[TC]TCCAGGAAAAGCTGGGGTCTTACAGCAGAGAGGCTCTGGGAGCACATCTCCCCTTCTGGT
113800 I         A     GCAGTGAAATATTTCCTTGATTTTGGTGAGGATCTAAAGTGGGATGT
113800 P     A   A     CGCGCCGAGGAATTTATAACATACTTGAAAGCCATY
113800 P     G   A     ATGACGTGGCAGACGATTTATAACATACTTGAAAGCCAT
113800 T     A   A     GTCAATGGCTTTCAAGTATGTTATAAATTCATCCACTTTAGATCCTCACCAAAATCAAGGAAATATTTCACTGCCA
113800 T     G   A     GTCAATGGCTTTCAAGTATGTTATAAATCCATCCCACTTTAGATCCTCACCAAAATCAAGGAAATATTTCACTGCCA
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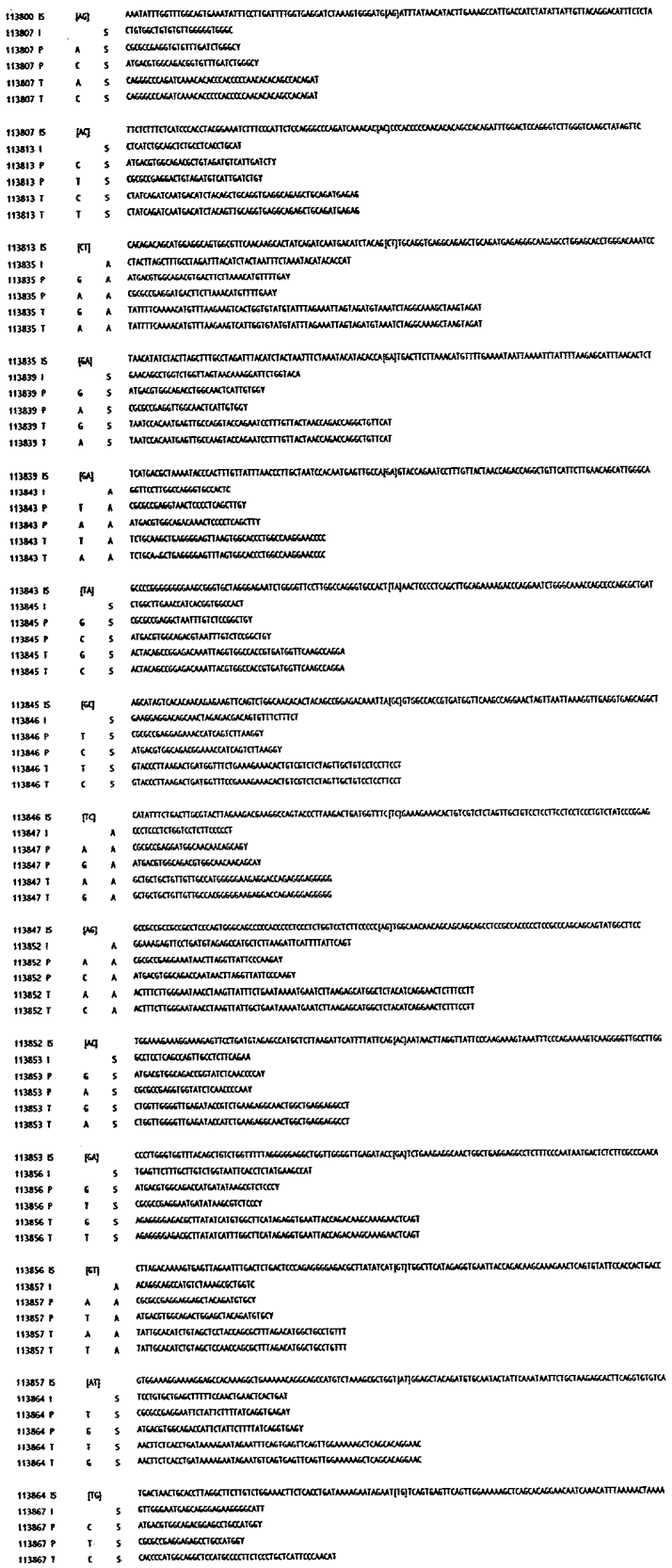


FIGURE 129G

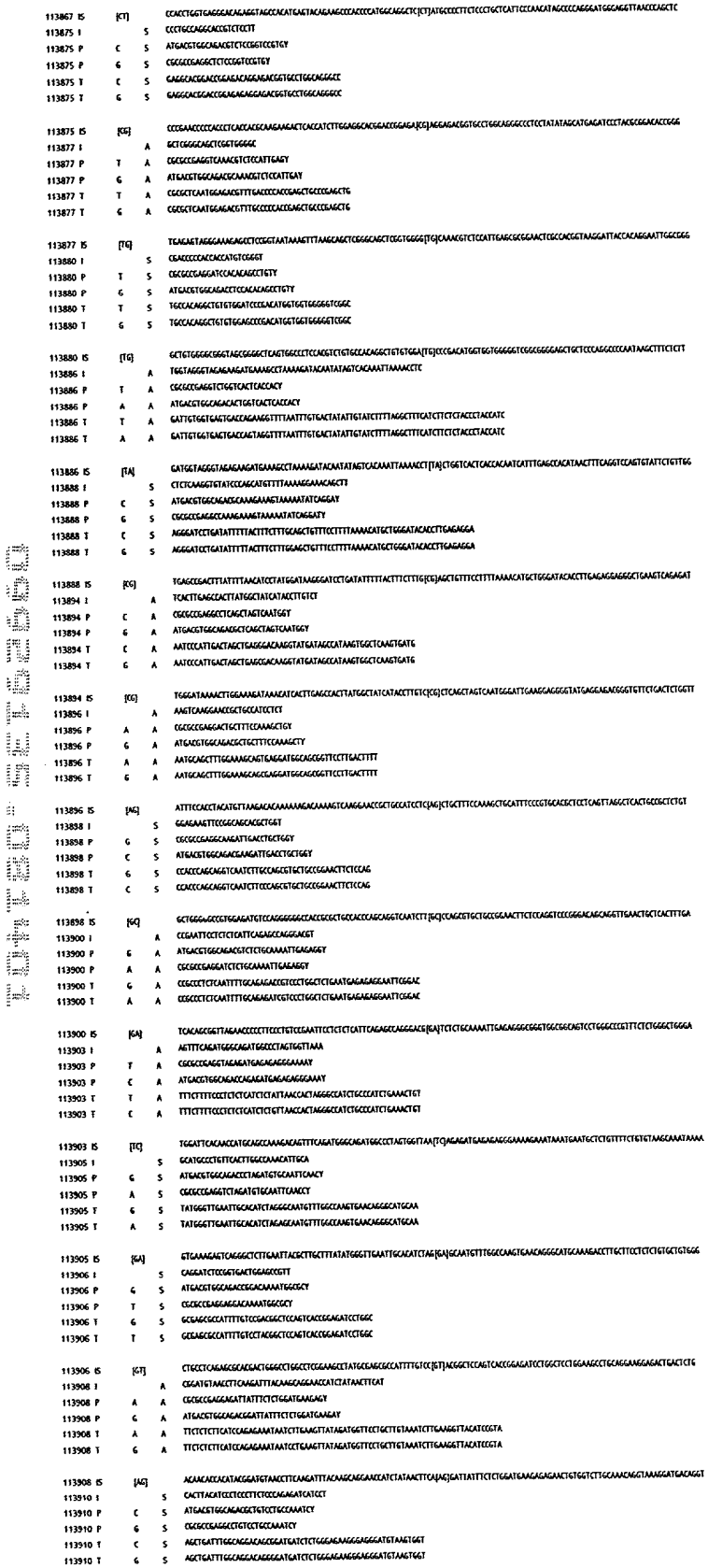


FIGURE 129G

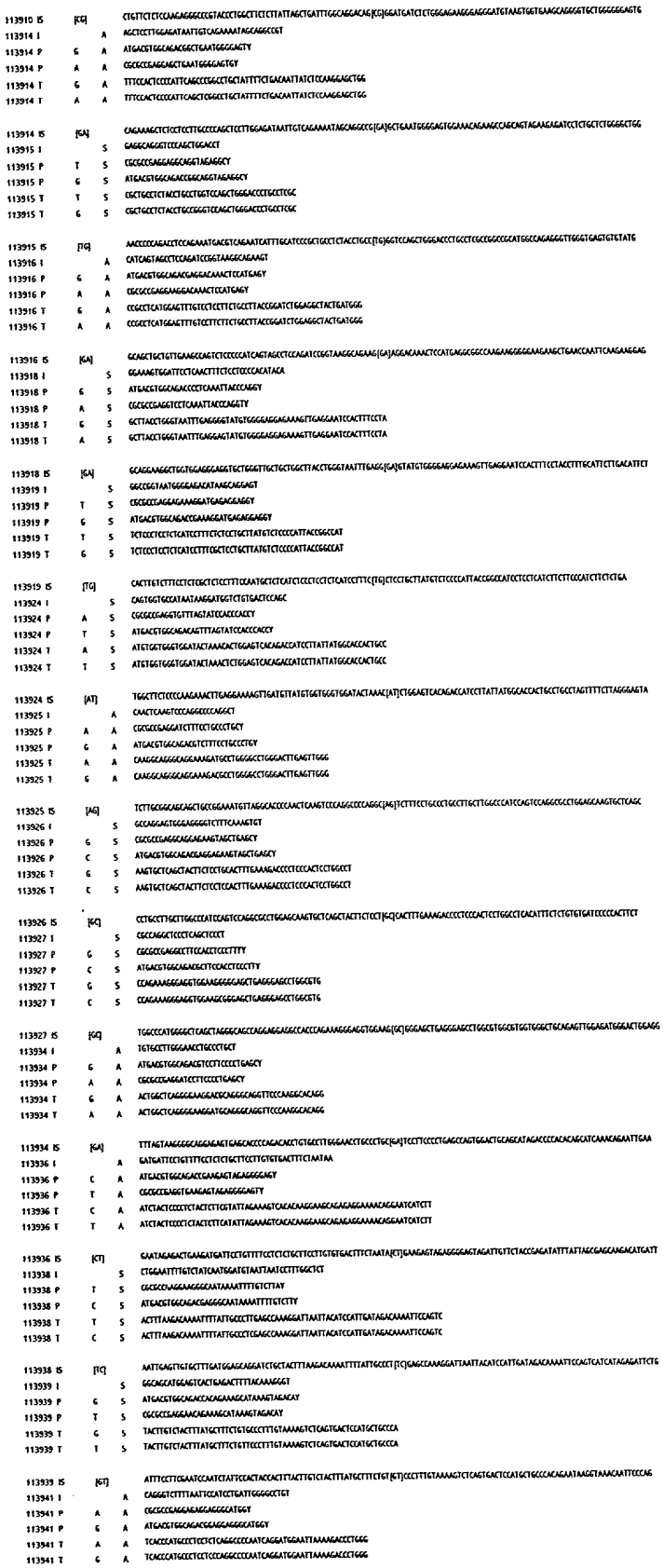


FIGURE 129G

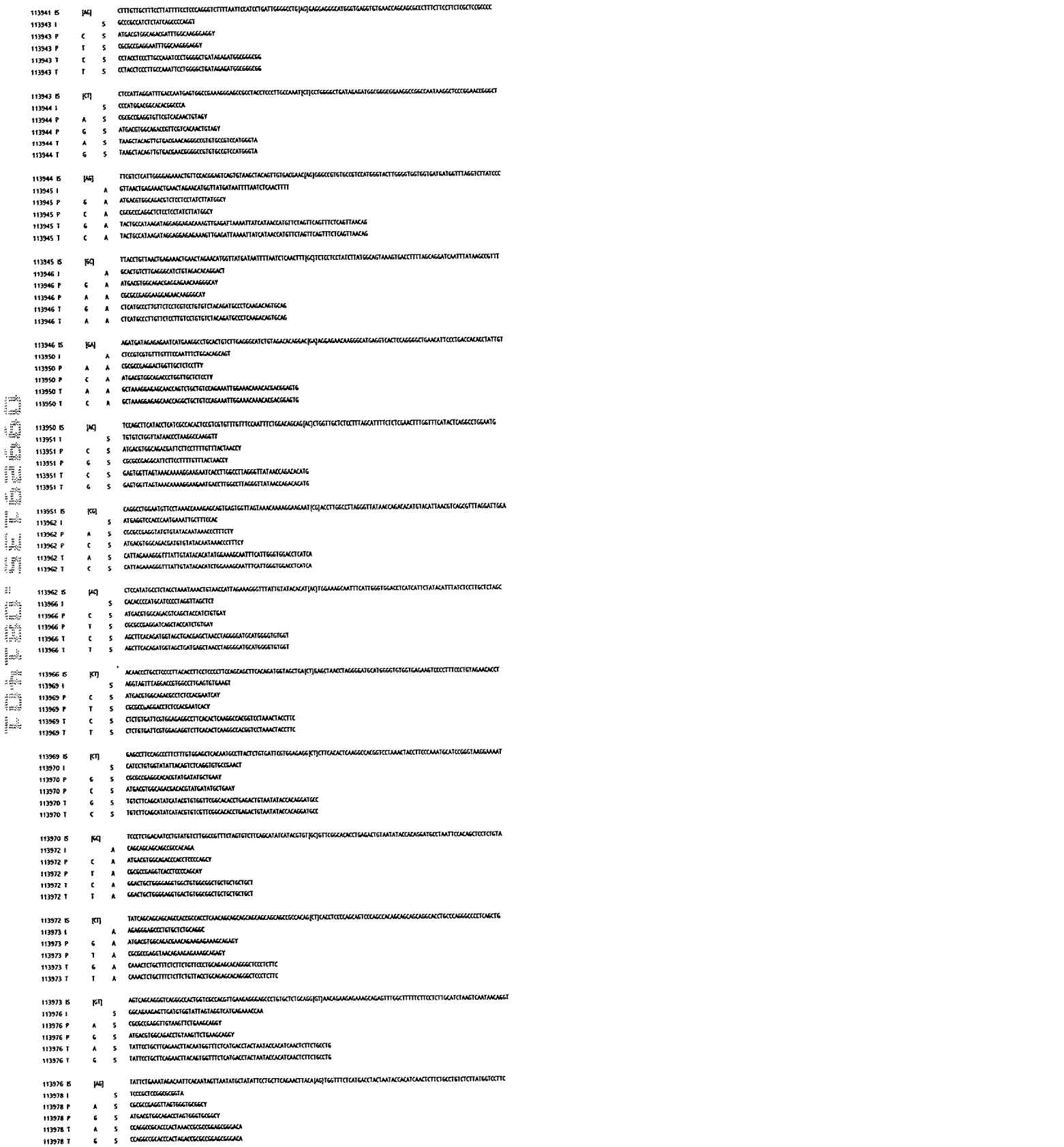
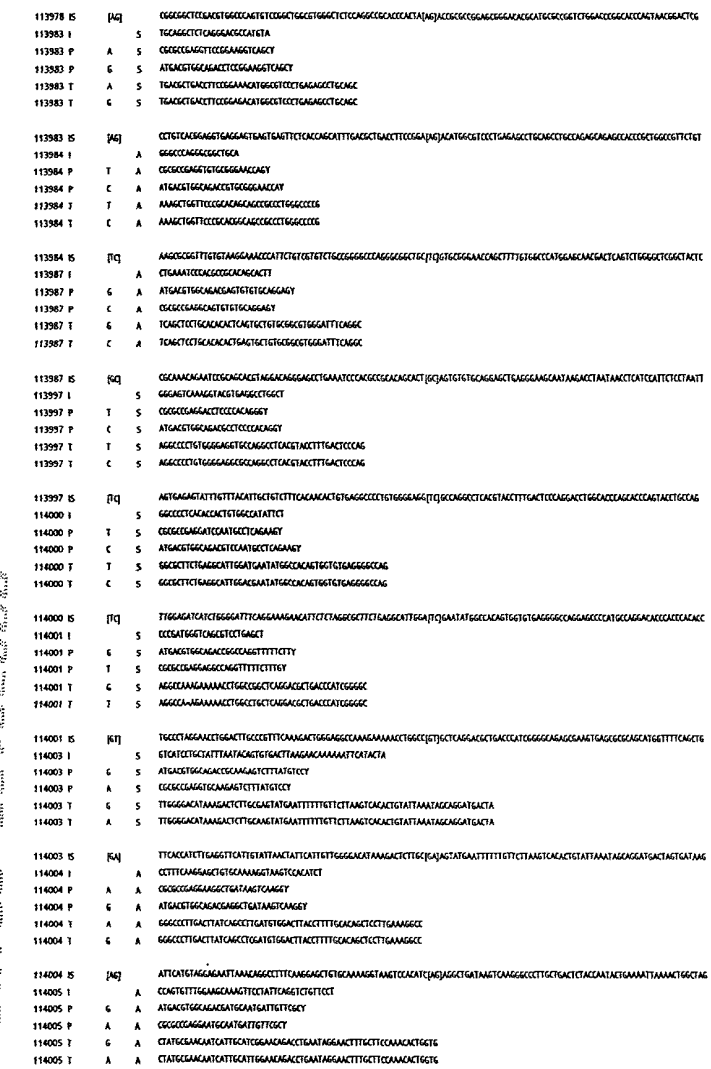
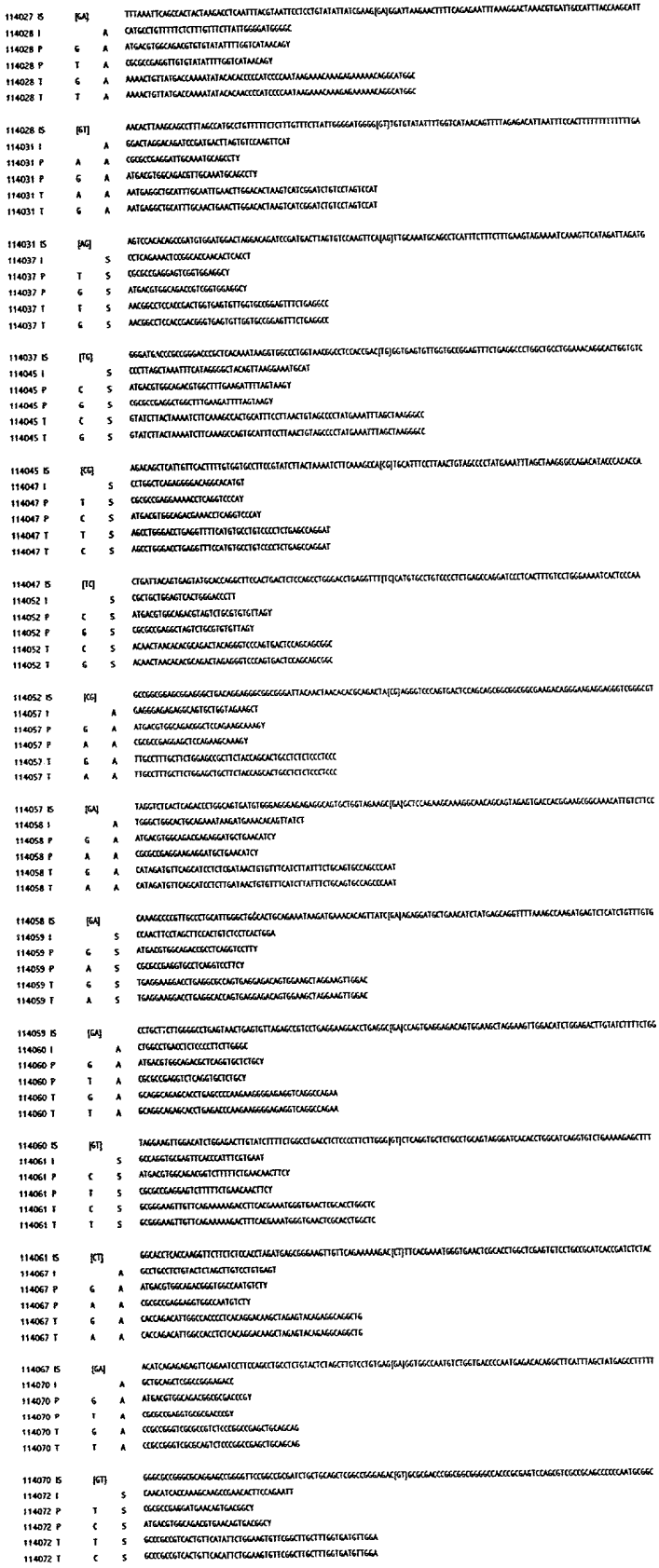


FIGURE 129G


113978 IS [AG] CGGCGGCTCCGACGTGGCCCAGTGTCCGGCTGGCGTGGGCTCTCCAGGCCGCACCCACTA[AG]ACCGCGCCGGAGCGGGACACGCATGCGCCGGTCTGGACCCGGCACCCAGTAACGGACTCG
113983 I S TGCAGGCTCTCAGGGACGCCATGTA
113983 P A S CGCGCCGAGGTCCCGAAGGTCAGCY
113983 P G S ATGACGTGGCAGACCTCCGGAAGGTCAGCT
113983 T A S TCACGCTGACCTTCCGGAAACATGGCGTCCCTGAGAGCCTGCAGC
113983 T G S TGACGCTGACCTTCCGGAGACATGGCGTCCCTGAGAGCCTGCAGC
113983 IS [AG] CCTGTCACGGAGGTGAGGAGTGAGTGAGTTCTCACCAGCATTTGACGCTGACCTTCCGGA[AG]ACATGGCGTCCCTGAGAGCCTGCAGCCTGCCAGAGCAGAGCCACCCGCTGGCCGTTCTGT
113984 I A GGGCCCAGGCGGCTGCA
113984 P T A CGCGCCGAGGTGTGCGGGAACCAGY
113984 P C A ATGACGTGGCAGACCGTGCGGGAACCAY
113984 T T A AAAGCTGGTTCCCGCAGCAGCCGCCCTGGGCCCCG
113984 T C A AAAGCTGGTTCCCGCACGCAGCCGCCCTGGGCCCCG
113984 IS [TC] AAGCGCGGTTGTGTAAGGAAACCCATTCTGTCGTGTCTGCCGCGGGCCCAGGGCGGCTGC[TC]GTGCGCGGAACCAGCTTTGTGGCCATGCAGCAACGACTCAGTCTGGGGCTCGGCTACTC
113987 I A CTGAAATCCCACGCCGCACAGCACTT
113987 P G A ATGACGTGGCAGACGAGTGTGTGCAGGAGY
113987 P C A CGCGCCGAGGCAGTGTGTGCAGGAGY
113987 T G A TCAGCTCCTGCACACACTCAGTGCTGTGCGGCGTGGGATTTCAGGC
113987 T C A TCAGCTCCTGCACACACTGAGTGCTGTGCGGCGTGGGATTTCAGGC
113987 IS [GC] CGCAAACAGAATCCGCAGCACGTAGGACAGGGAGGCTGAAATCCCACGCCGCACAGCACT[GC]AGTGTGTGCAGGAGCTGAGGGAAGCAATAAGACCTAATAACCTCATCCATTCTCCTAATT
113997 I S GGCAGTCAAAGGTACGTGAGGCCTGGCT
113997 P T S CGCGCCGAGGACCTCCCCACAGGGY
113997 P C S ATGACGTGGCAGACGCCTCCCCACAGGY
113997 T T S AGGCCCCTGTGCGGCAGGTGCCAGGCCTCACGTACCTTTGACTCCCAG
113997 T C S AGGCCCCTGTGCGGCAGGCCGCCAGGCCTCACGTACCTTTGACTCCCAG
113997 IS [TC] AGTGAGAGTATTTGTTTACATTGCTGTCTTTCACAACACTGTGAGGCCCCTGTGGGGAGG[TC]GCCAGGCCTCACGTACCTTTGACTCCCAGGACCTGGCACCCAGCACCCAGTACCTGCCAG
114000 I S GGCCCCTCACACCACTGTGGCCATATTCT
114000 P T S CGCGCCGAGGATCCAATGCCTCAGAAGY
114000 P C S ATGACGTGGCAGACGTCCAATGCCTCAGAAGY
114000 T T S GGCGCTTCTGAGGCATTGGATGAATATGGCCACAGTGGTGTGAGGGGCCAG
114000 T C S GCCGCTTCTGAGGCATTGGACGAATATGGCCACAGTGGTGTGAGGGGCCAG
114000 IS [TC] TTGGAGATCATCTGGGGATTTCAGGAAAGAACATTCTCTAGGCGCTTCTGAGGCATTGGA[TC]GAATATGGCCACAGTGGTGTGAGGGGCCAGGAGGCCCATGCCAGGACACCCCACCCACACC
114001 I S CCCGATGGCTCAGCGTCCTGAGCT
114001 P G S ATGACGTGGCAGACCGGCCAGGTTTTTCTTY
114001 P T S CGCGCCGAGGAGGCCAGGTTTTTCTTTGY
114001 T G S AGGCCAAAGAAAAACCTGGCCGGCTCAGGACGCTGACCCATCGGGGC
114001 T T S AGGCCA-AGAAAAACCTGGCCTGCTCAGGACGCTGACCCATCGGGGC
114001 IS [GT] TGCCCTAGGAACCTGGACTTGCCCGTTTCAAAGACTGGGAGGCCAAAGAAAAACCTGGCC[GT]GCTCAGGACGCTGACCCATCGGGGCAGAGGCAAGTGAGCGCGCAGCATGGTTTCAGCTG
114003 I S GTCATCCTGCTATTTAATACAGTGTGACTTAAGAACAAAAAATTCATACTA
114003 P G S ATGACGTGGCAGACCGCAAGAGTCTTTATGTCCY
114003 P A S CGCGCCGAGGTGCAAGAGTCTTTATGTCCY
114003 T G S TTGGGACATAAAGACTCTTGCGAGTATGAATTTTTTGTTCTTAAGTCACACTGTATTAAATAGCAGGATGACTA
114003 T A S TTGGGACATAAAGACTCTTGCAAGTATGAATTTTTTGTTCTTAAGTCACACTGTATTAAATAGCAGGATGACTA
114003 IS [GA] TTCACCATCTTGAGGTTCATTGTATTAACTATTCATTGTTGGGGACATAAAGACTCTTGC[GA]AGTATGAATTTTTTGTTCTTAAGTCACACTGTATTAAATAGCAGGATGACTAGTGATGATAAG
114004 I A CCTTTCAAGGAGCTGTGCAAAAGGTAAGTCCACATCT
114004 P A A CGCGCCGAGGAAGGCTGATAAGTCAAGGY
114004 P G A ATGACGTGGCAGACGAGGCTGATAAGTCAAGGY
114004 T A A GGGCCCTTGACTTATCAGCCTGATGTGGACTTACCTTTTGCACAGCTCCTTGAAAGCC
114004 T G A GGGCCCTTGACTTATCAGCCTGCATGTGGACTTACCTTTTGCACAGCTCCTTGAAAGCC
114004 IS [AG] ATTCATGTAGGAGAATTAAACAGGCCTTTCAAGGAGCTGTGCAAAAGGTAAGTCCACATC[AG]AGGCTGATAAGTCAAGGGCCCTTGCTGACTCTACCAATACTGAAAATTAAAACTGGCTAG
114005 I A CCAGTGTTTGGAAGCAAAGTTCCTATTCAGGTCTGTTCC[GA]ATGCAATGATTGTTCGCATAGAAAGAACGGTTCTTTCTCCACATTCGATTCTACATAAAC
114005 P G A ATGACGTGGCAGACGCAGGTAAGAAGTATACCCY
114005 P A A CGCGCCGAGGCAGGTAAGAAGTATACCCY
114005 T G A TTCACAGGGTATACTTCTTACCTGCATTAGAGCAGATGATGTCTTGTGAATTCTTGCACATTTGGT
114005 T A A TTCACAGGGTATACTTCTTACCTGAATTAGAGCAGATGATGTCTTGTGAATTCTTGCACATTTGGT
114008 IS [GT] TTGACAAAGAAGAAAAGTAACCAAATGTGCAAGAATTCACAAGACATCATCTGCTCTAAT[GT]CAGGTAAGAAGTATACCCTGTGAAAATTGTTAAGTGGAATAATCAAATTTGTTTTTAAT
114014 I A CCAGCACCATGAACTGCTGGGGCTA
114014 P C A ATGACGTGGCAGACCGTTGCTGGGTATCAGY
114014 P T A CGCGCCGAGGTGTTGCTGGGTATCAGCY
114014 T C A ATATGCTGATACCCAGCAACAGCCCCACCAGTCCATGGTCCTGGAC
114014 T T A ATATGCTGATACCCAGCAACAGCCCCACCAGTCCATGGTCCTGGAC
114014 IS [CT] GATTTAGAATGGACAGTCCTGCAATGATGTTGTGGTCCAGGACCATGGACTGGTGGGGCT[CT]GTTGCTGGGTATCAGCATATAGATCATTAAGGCCATCACAGGGATGCCAAACACCAGGCT
114017 I A GAAACTTGTTGTTGTCTAGTCTTTTTGTTAGGTTATCTCTGACTT
114017 P A A CGCGCCGAGGACCTCTGGCTTGAGACY
114017 P G A ATGACGTGGCAGACGCCTCTGGCTTGAGAY
114017 T A A AAATGTCTCAAGCCAGAGGTAGTCAGAGATAACCTAACAAAAAGACTAGACACAACAAACAAGTTTCTC
114017 T G A AAATGTCTCAAGCCAGAGGCAGTCAGAGATAACCTAACAAAAAGACTAGACACAACAAACAAGTTTCTC
114017 IS [AG] TATCTAAATATATGAGAAACTTGTTTGTTGTCTAGTCTTTTTGTTAGGTTATCTCTGACT[AG]CCTCTGGCTTGAGACATTTTGTGAAATTTCTTCATTTTTTCTAGCTATAAAATAATACTC
114021 I A CCAGTGTCCCTTTCTCTTCCACTGGGACCTTTGT
114021 P G A ATGACGTGGCAGACGTTATTTGGGTCACAAGCTY
114021 P A A CGCGCCGAGGATTATTTGGGTCACAAGCTY
114021 T G A TGTGAGCTTGTGACCCAAATAACCAAAGGTCCCAGTGGAAGAGAAAGGGACACTGGCT
114021 T A A TGTGAGCTTGTGACCCAAATAATCAAAGGTCCCAGTGGAAGAGAAAGGGACACTGGCT
114021 IS [GA] CATGGGCACAGCCAGATGGGCAAGAAGCCAGTGTCCCTTTCTCTTCCACTGGGACCTTTG[GA]TTATTTGGGTCACAAGCTCACAGAGCACCATCCACATGCAAATGCCCAACTGTGTATTCA
114027 I S GCAATCACGTTTAGTCCTTTAAATTCTCTGAAAAGTTCTTAATCCA
114027 P G S ATGACGTGGCAGACCCTTCGATAATATACAGCAGGY
114027 P A S CGCGCCGAGGTCTTCGATAATATACAGCAGGAY
114027 T G S TAATTCCTCCTGTATATTATCGAAGGGGATTAAGAACTTTTCAGAGAATTTAAAGGACTAAACGTGATTGCCA
114027 T A S TAATTCCTCCTGTATATTATCGAAGAGGATTAAGAACTTTTCAGAGAATTTAAAGGACTAAACGTGATTGCCA



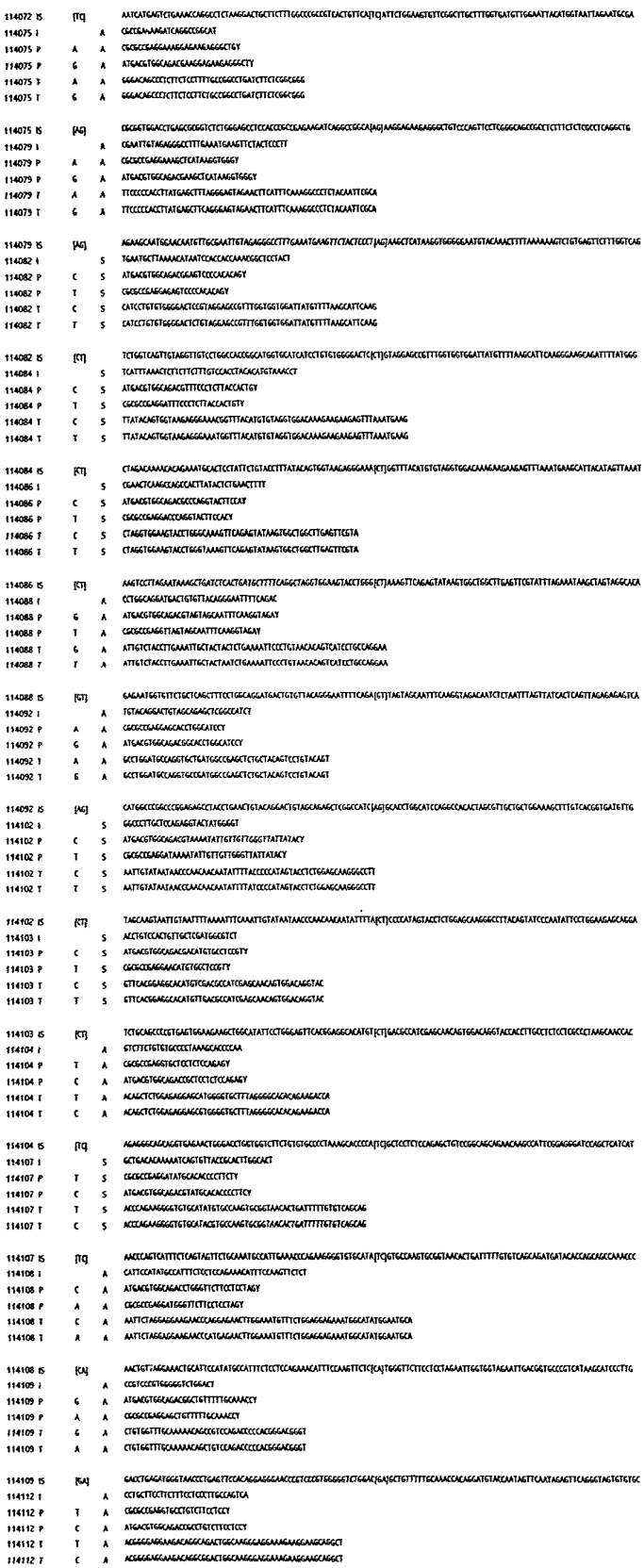
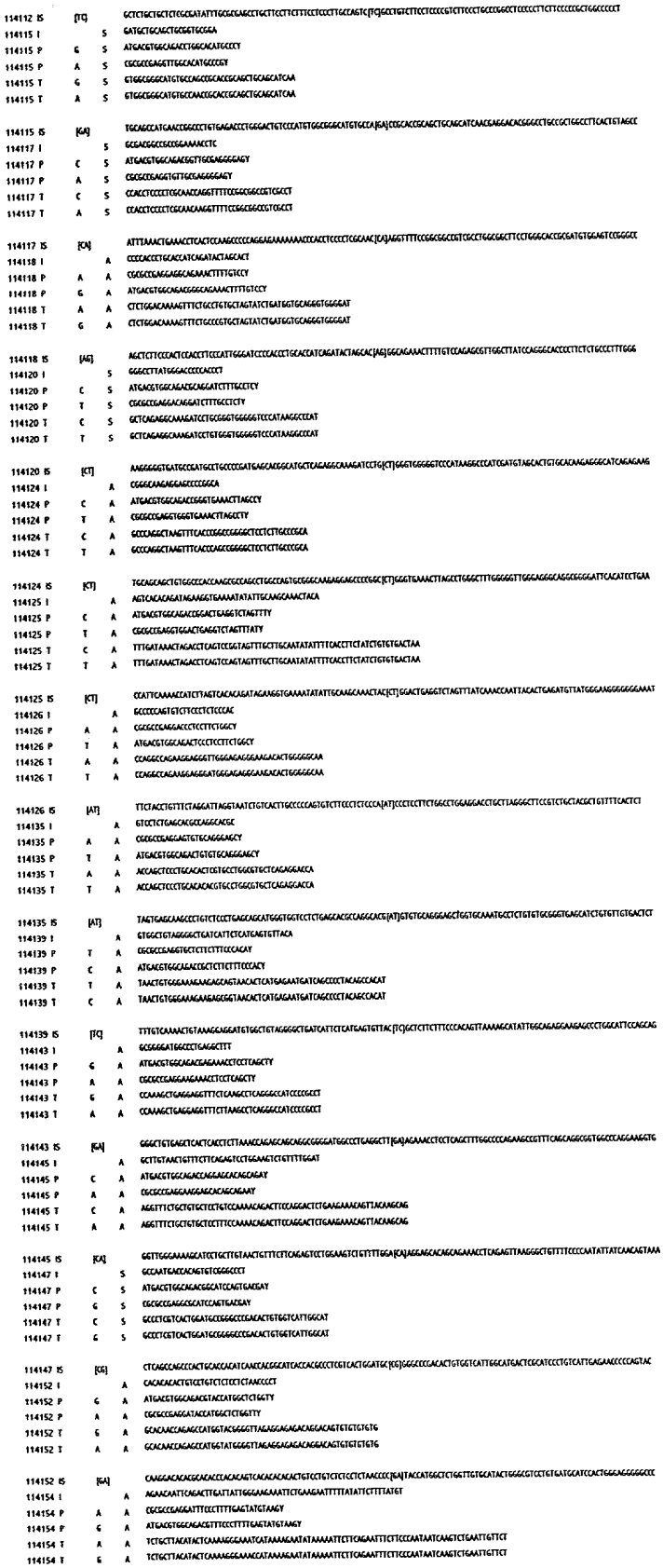


FIGURE 129G



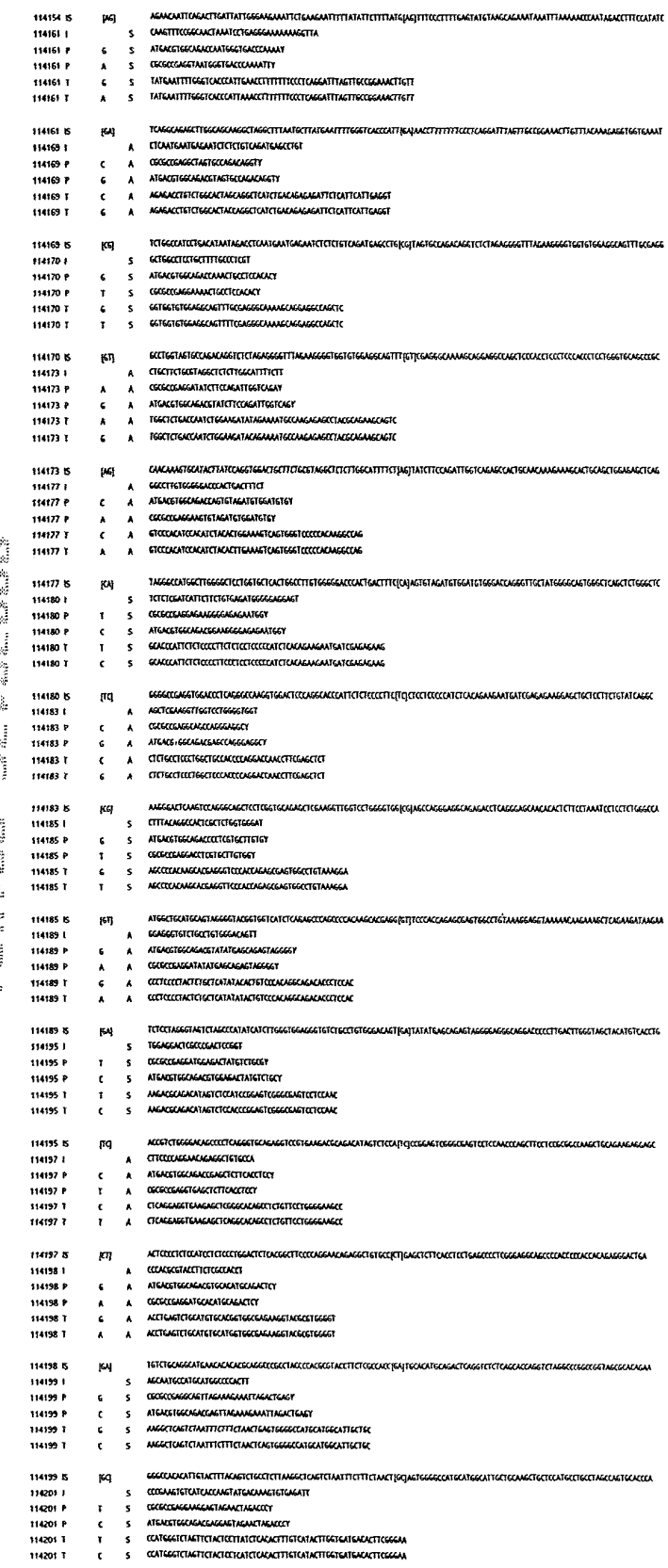


FIGURE 129G

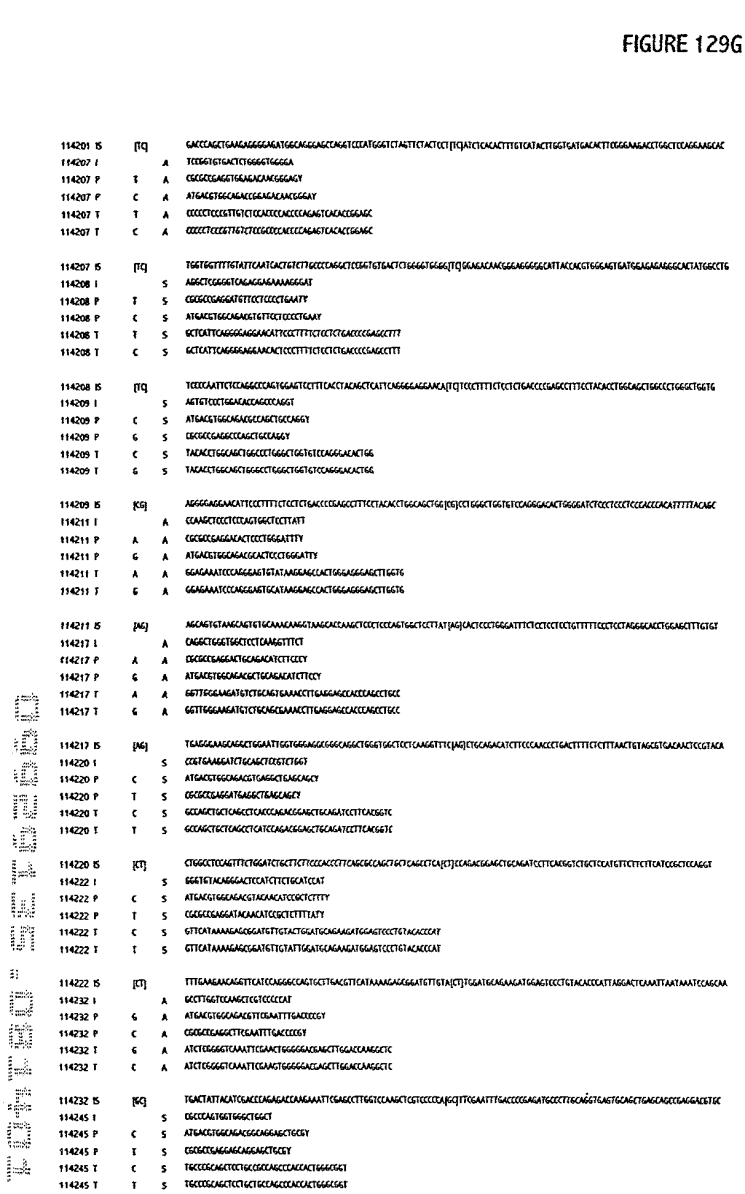


FIGURE 129G

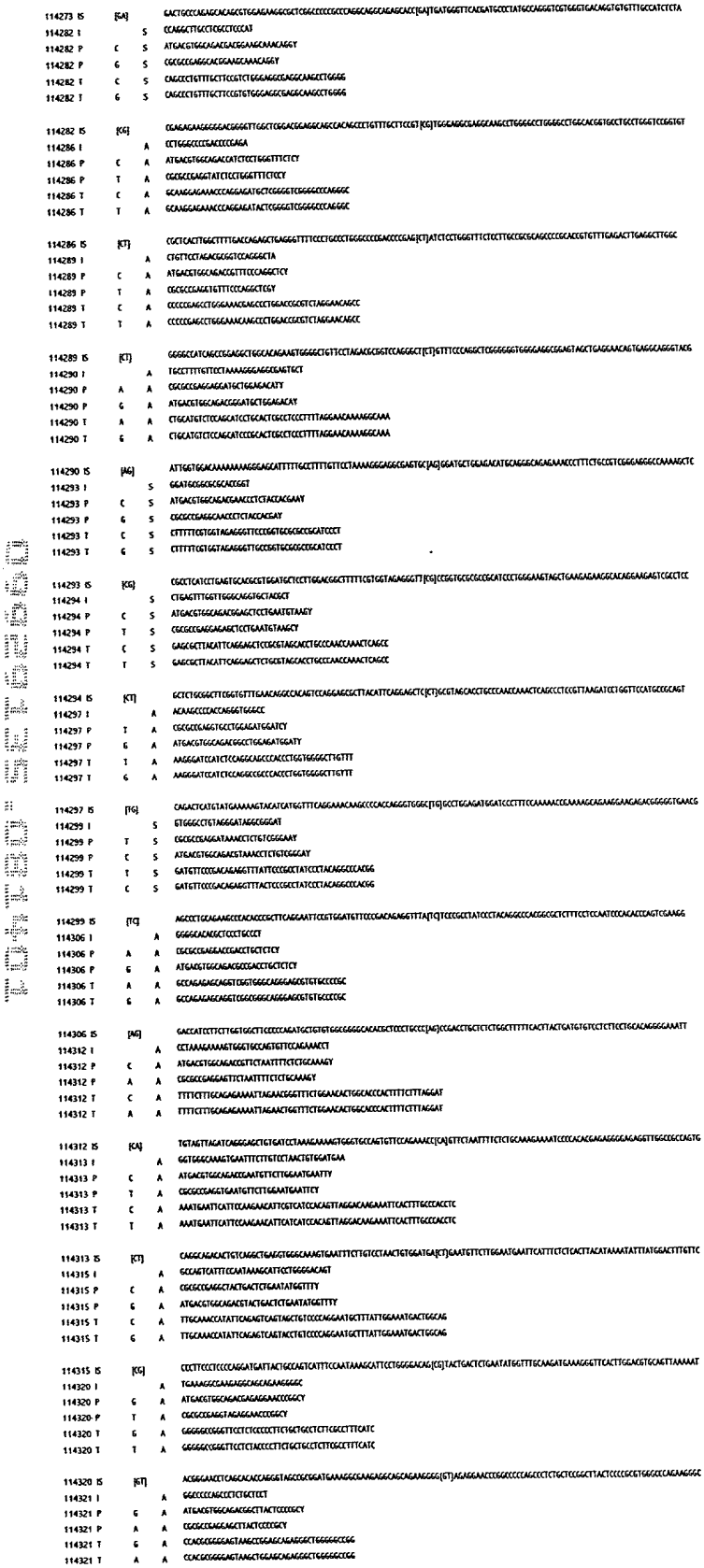


FIGURE 129G

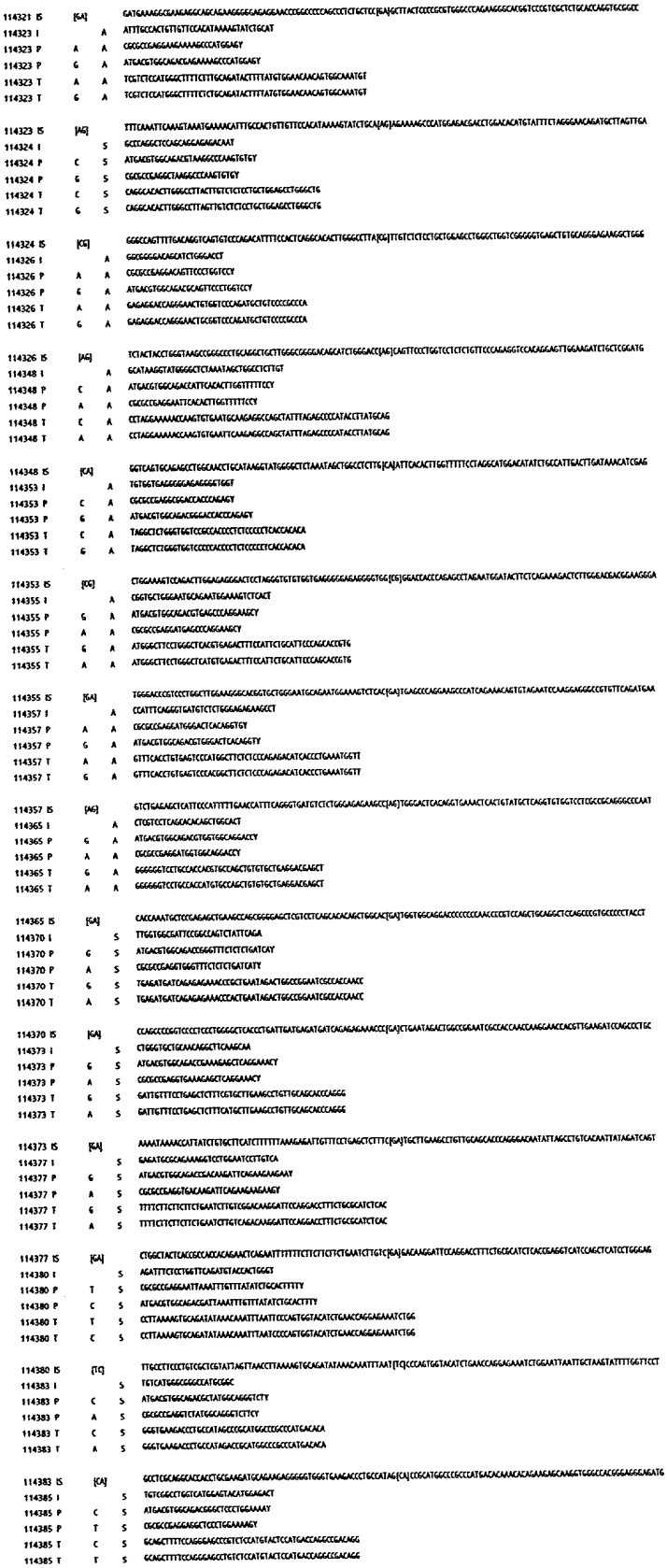


FIGURE 129G

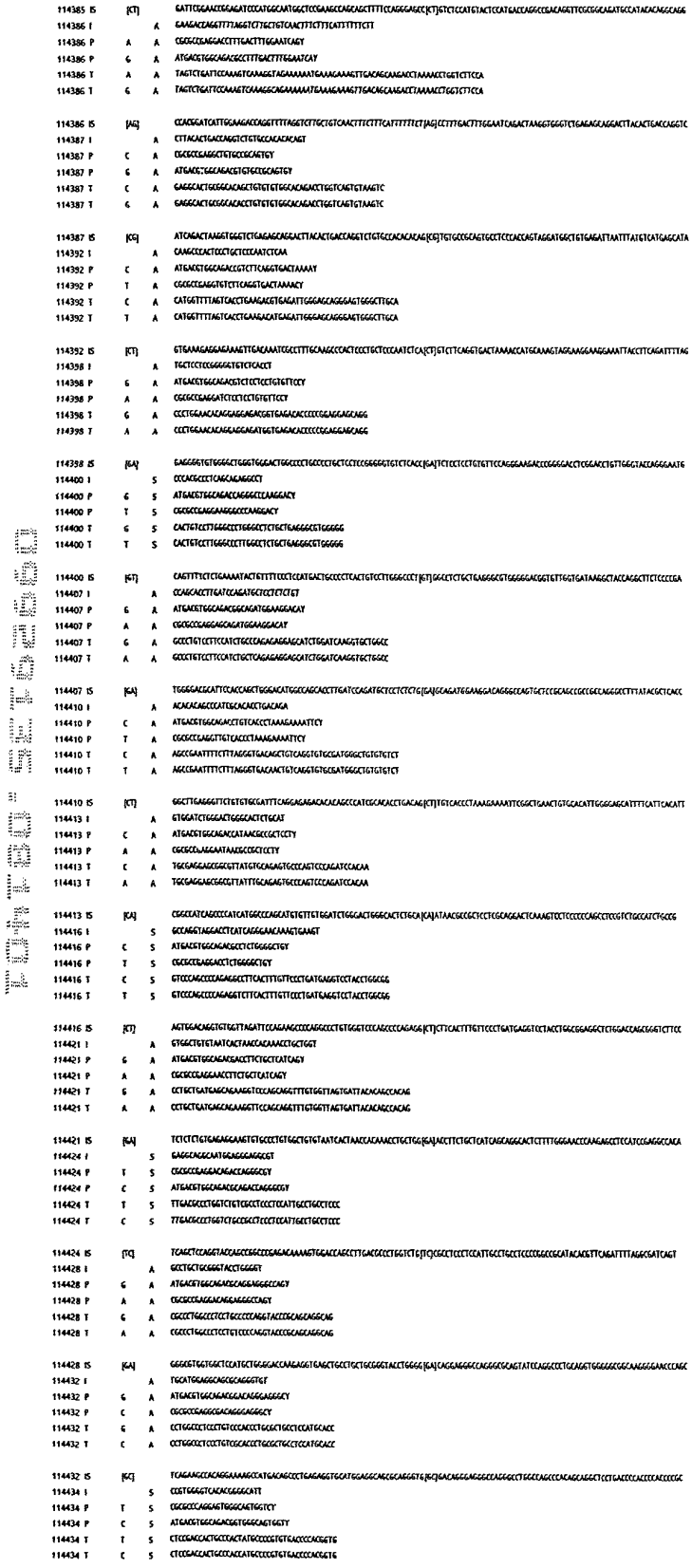


FIGURE 129G

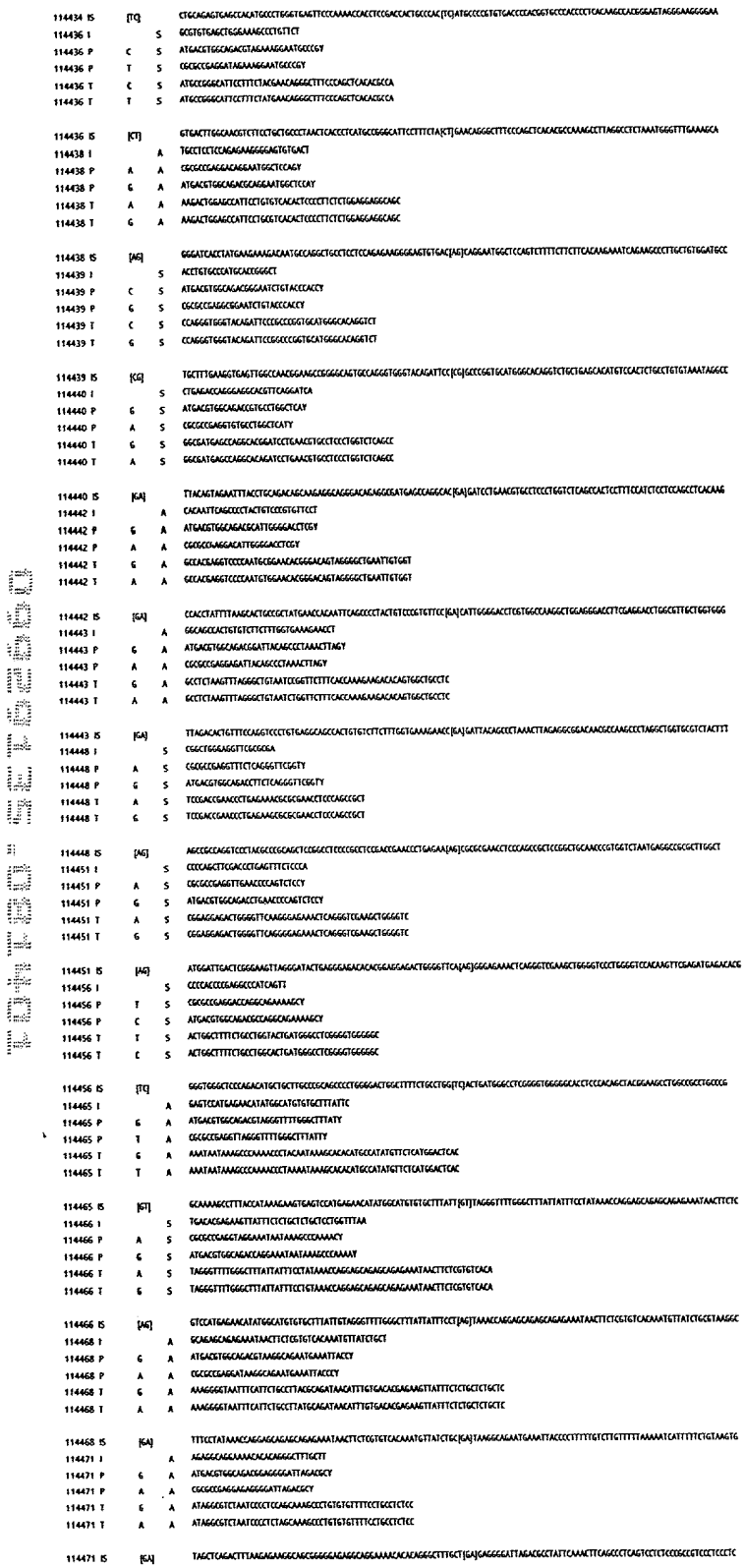

114434 IS [TC] CTGCACAGTCAGCCACATGCCCTGGGTGAGTTCCCAAAACCACCTCCGACCACTGCCCAC[TC]ATGCCCCGTGTGACCCCACGGTGCCCACCCCTCACAAGCCACGGGAGTAGGGAAGGGAA
114436 I S GCGTGTGAGCTGGAAAGCCCTGTTCT
114436 P C S ATGACGTGGCAGACGTAGAAAGGAATGCCGY
114436 P T S CGCGCCGAGGATAGAAAGGAATGCCGY
114436 T C S ATGCCGGGCATTCCTTTCTACGAACAGGGCTTTCCCAGCTCACACGCCA
114436 T T S ATGCCGGGCATTCCTTTCTATGAACAGGGCTTTCCCAGCTCACACGCCA
114436 IS [CT] GTGACTTGGCAACGTCTTCCTGCTGCCCCTAACTCACCCTCATGCCGGGCATTCCTTTCTA[CT]GAACAGGGCTTTCCCAGCTCACACGCCAAGCCTTAGGCCTCTAAATGGGTTTGAAAGCA
114438 I A TGCCTCCTCCAGAGAAGGGGAGTGTGACT
114438 P A A CGCGCCCAGGACAGGAATGGCTCCAGY
114438 P G A ATGACGTGGCAGACGCAGGAATGGCTCCAY
114438 T A A AAGACTGGAGCCATTCCTGTGTCACACTCCCCTTCTCTGGAGGAGGCAGC
114438 T G A AAGACTGGAGCCATTCCTGGGTCACACTCCCCTTCTCTGGAGGAGGCAGC
114438 IS [AG] GGGATCCACCTATGAAGAAAGACAATGCCAGGCTGCCTCCTCCAGAGAAGGGGAGTGTGAC[AG]CAGGAATGGCTCCAGTCTTTTCTTCTTCACAAGAAATCAGAAGCCCTTGCTGTGGATGCC
114439 I S ACCTGTGCCCATGCACCGGGCT
114439 P C S ATGACGTGGCAGACGGGAATCTGTACCCACCY
114439 P G S CGCGCCCAGGCGGAATCTGTACCCACCY
114439 T C S CCAGGGTGGGTACAGATTCCCGCCCGGTGCATGGGCACAGGTCT
114439 T G S CCAGGGTGGGTACAGATTCCGGCCCGGTGCATGGGCACAGGTCT
114439 IS [CG] TGCTTTGAAGGTGAGTTGGCCAACGGAAGCCGGGGCAGTGCCAGGGTGGGTACAGATTCC[CG]GCCCGGTGCATGGGCACAGGTCTGCTGAGCACATGTCCACTCTGCCTGTGTAAATAGGCC
114440 I S CTGAGACCAGGGAGGCACGTTCAGGATCA
114440 P G S ATGACGTGGCAGACCGTGCCTGGCTCAY
114440 P A S CGCGCCGAGGTGTGCCTGGCTCATY
114440 T G S GGCGATGAGCCAGGCACGGATCCTGAACGTGCCTCCCTGGTCTCAGCC
114440 T A S GGCGATGAGCCAGGCACAGATCCTGAACGTGCCTCCCTGGTCTCAGCC
114440 IS [GA] TTACAGTAGAATTTACCTGCAGACAGCAAGAGGCAGGACACAGGCGATGAGCCAGGCAC[GA]GATCCTGAACGTGCCTCCCTGGTCTCAGCCACTCCTTTCCATCTCCTCCAGCCTCACAAG
114442 I A CACAATTCAGCCCCTACTGTCCCGTGTTCCT
114442 P G A ATGACGTGGCAGACGCATTGGGGACCTCGY
114442 P A A CGCGCCAAGGACATTGGGGACCTCGY
114442 T G A GCCACGAGGTCCCCAATGCGGAACACGGGACAGTAGGGGCTGAATTGTGGT
114442 T A A GCCACGAGGTCCCCAATGTGGAACACGGGACAGTAGGGGCTGAATTGTGGT
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114443 I A GGCAGCCACTGTGTCTTCTTTGGTGAAAGAACCT
114443 P G A ATGACGTGGCAGACGGATTACAGCCCTAAACTTAGY
114443 P A A CGCGCCGAGGAGATTACAGCCCTAAACTTAGY
114443 T G A GCCTCTAAGTTTAGGGCTGTAATCGGGTTCTTTCACCAAAGAAGACACAGTGGCTGCCTC
114443 T A A GCCTCTAAGTTTAGGGCTGTAATCTGGTTCTTTCACCAAAGAAGACACAGTGGCTGCCTC
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114448 I S CGGCTGGGAGGTTCGCGCGCA
114448 P A S CGCGCCGAGGTTTCTCAGGGTTCGGTY
114448 P G S ATGACGTGGCAGACCTTCTCAGGGTTCGGTY
114448 T A S TCCGACCGAACCCTGAGAAACGCGCGAACCTCCCAGCCGCT
114448 T G S TCCGACCGAACCCTGAGAAGCGCGCGAACCTCCCAGCCGCT
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114451 I S CCCCAGCTTCGACCCTGAGTTTCTCCCA
114451 P A S CGCGCCGAGGTTGAACCCCAGTCTCCY
114451 P G S ATGACGTGGCAGACCTGAACCCCAGTCTCCY
114451 T A S CGGAGCAGACTGGGGTTCAAGGGAAAACTCAGGGTCGAAGCTGGGGTC
114451 T G S CGGAGGAGACTGGGGTTCAGGGGAGAAACTCAGGGTCGAAGCTGGGGTC
114451 IS [AG] ATGGATTGACTCGGGAAGTTAGGGATACTGAGGGAGACACACGGAGGAGACTGGGGTTCA[AG]GGGAGAAACTCAGGGTCGAAGCTGGGGTCCCTGGGGTCCACAAGTTCGAGATGAGACACG
114456 I S CCCCACCCCGAGGCCCATCAGTT
114456 P T S CGCGCCGAGGACCAGGCAGAAAAGCY
114456 P C S ATGACGTGGCAGACGCCAGGCAGAAAAGCY
114456 T T S ACTGGCTTTTCTGCCTGGTACTGATGGGCCTCGGGGTGGGGGC
114456 T C S ACTGGCTTTTCTGCCTGGCACTGATGGGCCTCGGGGTGGGGGC
114456 IS [TC] GGGTGGGCTCCCAGACATGCTGCTTGCCCGCAGCCCCTGGGGACTGGCTTTTCTGCCTGGTC[ACTGATGGACCTCGGGGTGGGGGCACCTCCCACAGCTACGGAAGCCTGGCCGCCTGCCCG
114465 I A GAGTCCATGAGAACATATGGCATGTGTGCTTTATTC
114465 P G A ATGACGTGGCAGACGTAGGGTTTTGGGCTTTATY
114465 P T A CGCGCCGAGGTTAGGGTTTTGGGCTTTATTY
114465 T G A AAATAATAAAGCCCAAAACCTACAATAAAGCACACATGCCATATGTTCTCATGGACTCAC
114465 T T A AAATAATAAAGCCCAAAACCTAAAATAAAGCACACATGCCATATGTTCTCATGGACTCAC
114465 IS [GT] GCAAAAGCCTTTACCATAAAGAAGTGAGTCCATGAGAACATATGGCATGTGTGCTTTATT[GT]TAGGGTTTTGGGCTTTATTATTTCCTATAAACCAGGAGCAGAGCAGAGAAATAACTTCTC
114466 I S TGACACGAGAAGTTATTTCTCTGCTCTGCTCCTGGTTTAA
114466 P A S CGCGCCGAGGTAGGAAATAATAAAGCCCAAAACY
114466 P G S ATGACGTGGCAGACAGGAAATAATAAAGCCCAAAAT
114466 T A S TAGGGTTTTGGGCTTTATTATTTCCTATAAACCAGGAGCAGAGCAGAGAAATAACTTCTCGTGTCACA
114466 T G S TAGGGTTTTGGGCTTTATTATTTCCTGTAAACCAGGAGCAGAGCAGAGAAATAACTTCTCGTGTCACA
114466 IS [AG] GTCCATGAGAACATATGGCATGTGTGCTTTATTGTAGGGTTTTGGGCTTTATTATTTCCT[AG]TAAACCAGGAGCAGAGCAGAGAAATAACTTCTCGTGTCACAAATGTTATCTGCGTAAGGC
114468 I A GCAGAGCAGAGAAATAACTTCTCGTGTCACAAATGTTATCTGCT
114468 P G A ATGACGTGGCAGACGTAAGGCAGAATGAAATTACCY
114468 P A A CGCGCCGAGGATAAGGCAGAATGAAATTACCY
114468 T G A AAAGGGCTAATTTCATTCTGCCTTAGCAGATAACATTTGTGACACGAGAAGTTATTTCTCTGCTCTGCTC
114468 T A A AAAGGGCTAATTTCATTCTGCCTTATGCAGATAACATTTGTGACACGAGAAGTTATTTCTCTGCTCTGCTC
114468 IS [GA] TTTCCTATAAACCAGGAGCAGAGCAGAGAAATAACTTCTCGTGTCACAAATGTTATCTGC[GA]TAAGGCAGAATGAAATTACCCCTTTTTGTCTTGTTTTTAAAAATCATTTTTCTGTAAGTG
114471 I A AGAGGCAGCAAAACACACAGGGCTTTGCTT
114471 P G A ATGACGTGGCAGACGAGAGGGAATTAGACGCY
114471 P A A CGCGCCGAGGAGAGGGGATTAGACGCY
114471 T G A ATAGGGGTCTAATCCCCTCCAGCAAAGCCCTGTGTGTTTTCCTGCCTCTCC
114471 T A A ATAGGGGTCTAATCCCCTCTAGCAAAGCCCTGTGTGTTTTCCTGCCTCTCC
114471 IS [GA] TAGCTCAGACTTTAAGAGAAGGCAGCGGGGGAGAGGCAGGAAAACACAGAGGCTTTGCT[GA]GAGGGGATTAGACGCCTATTCAAACTTCAGCCCTCAGTCCTCTCCCGCCGTCCCTCCCTC
114475 I A GAGGAGGGAGGGAGTGAAGGAAAGAAGGAAT
114475 P A A CGCGCCGAGGAGAAGGGAGGAAGTCAGY
114475 P G A ATGACGTGGCAGACGGAAGGGAGGAAGTCAY
114475 T A A CCGCCTGACTTCCTCCCTTCTTTCCTTCTTTCCTTCCACTCCCTCCCTCCCTCTT
114475 T G A CCGCCTGACTTCCTCCCTTCCTTCCTTCTTTCCTTCCACTCCCTCCCTCCCTCTT

FIGURE 129G

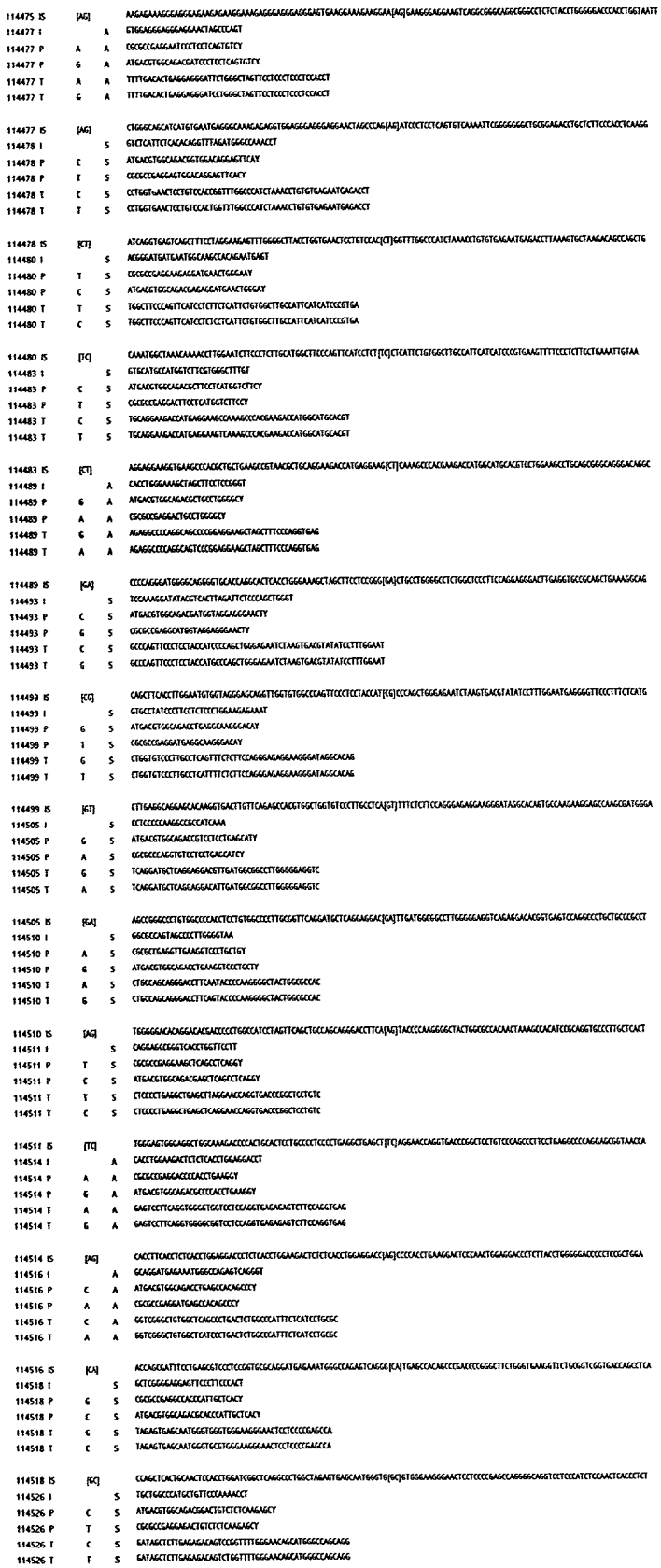
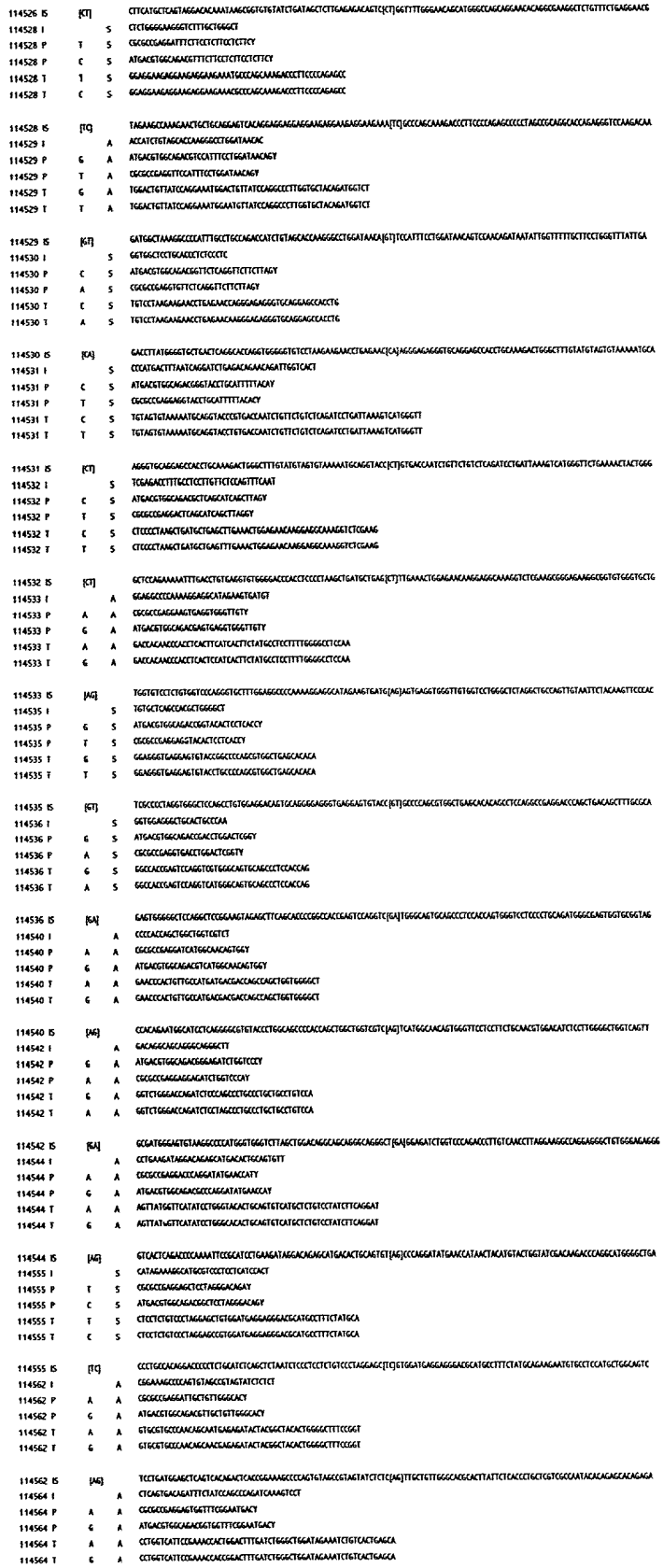


FIGURE 129G



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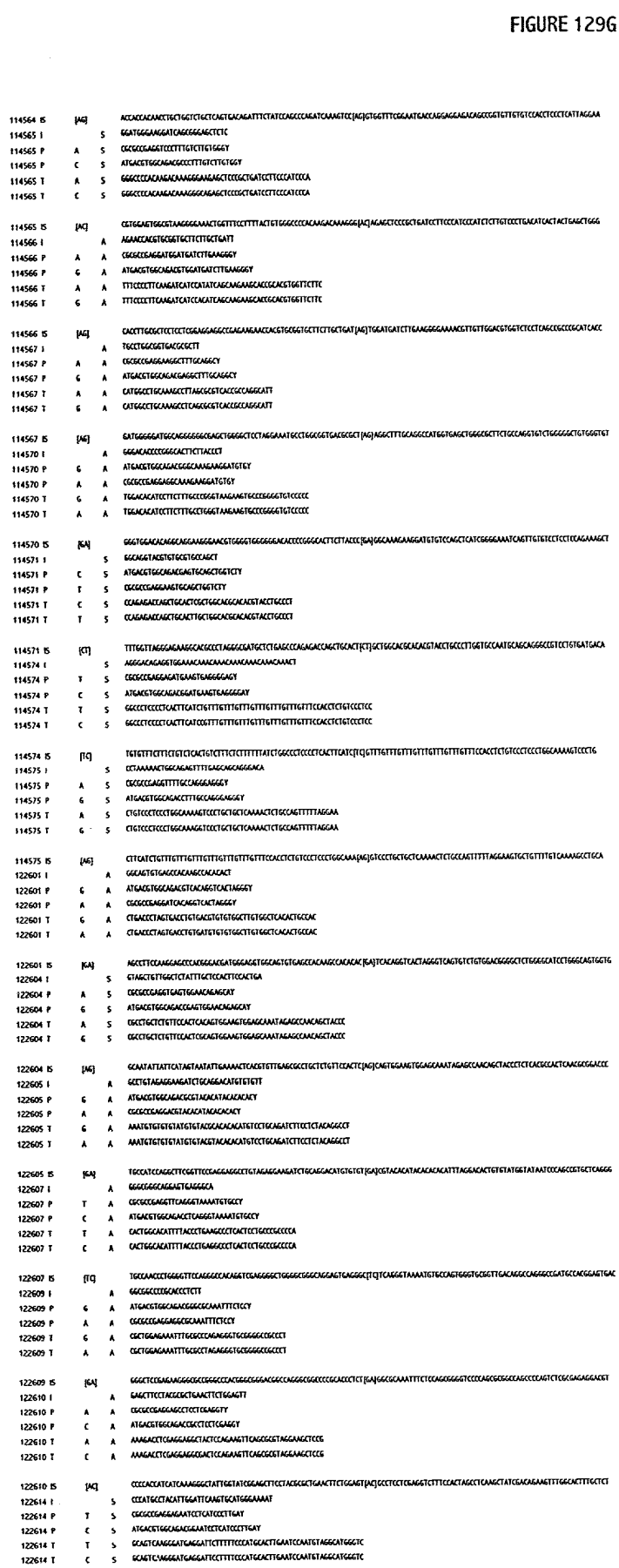
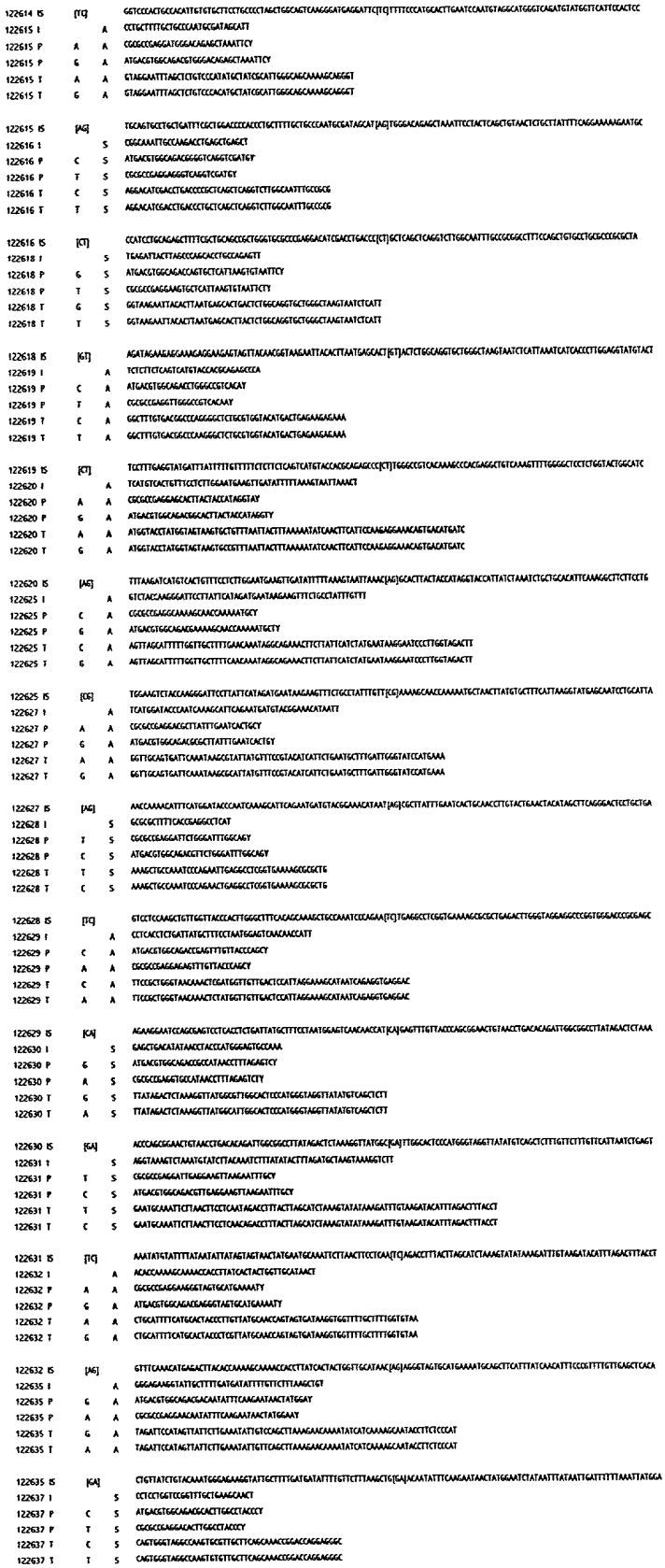


FIGURE 129G



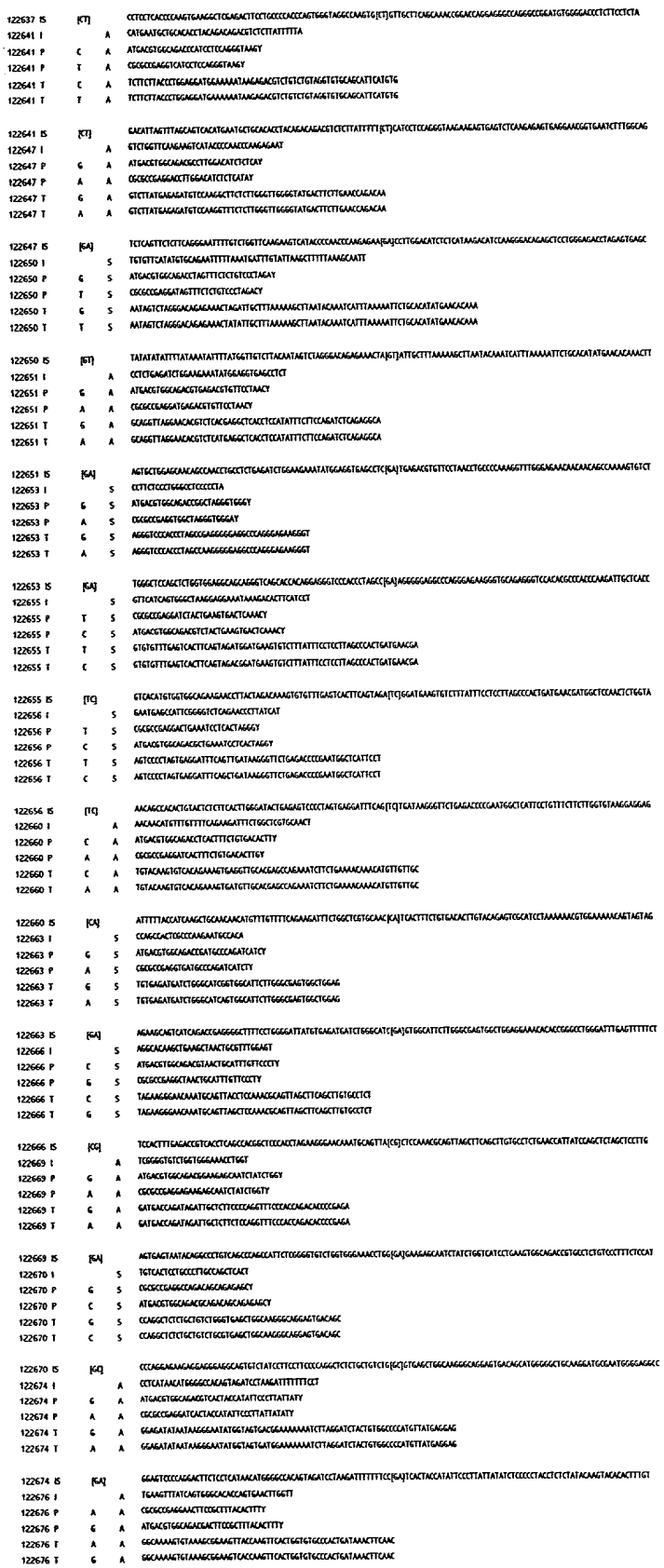
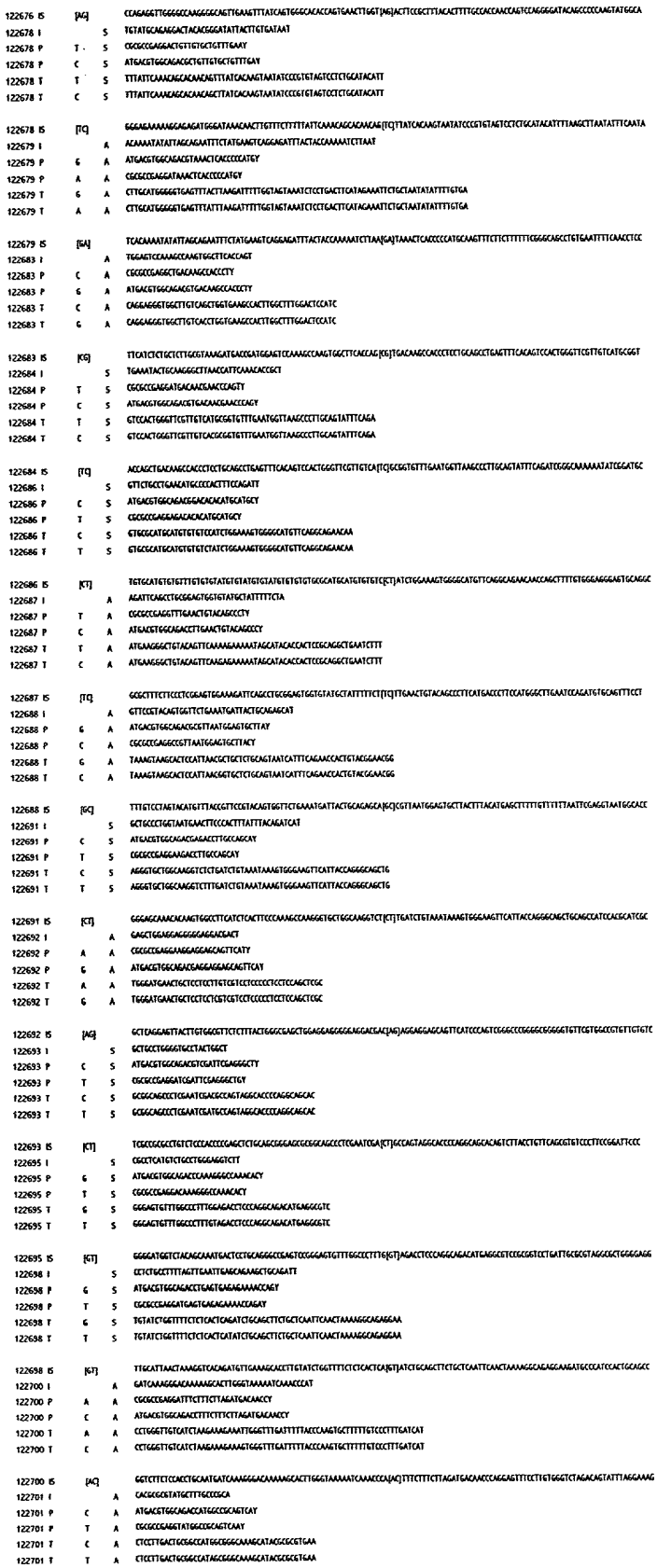
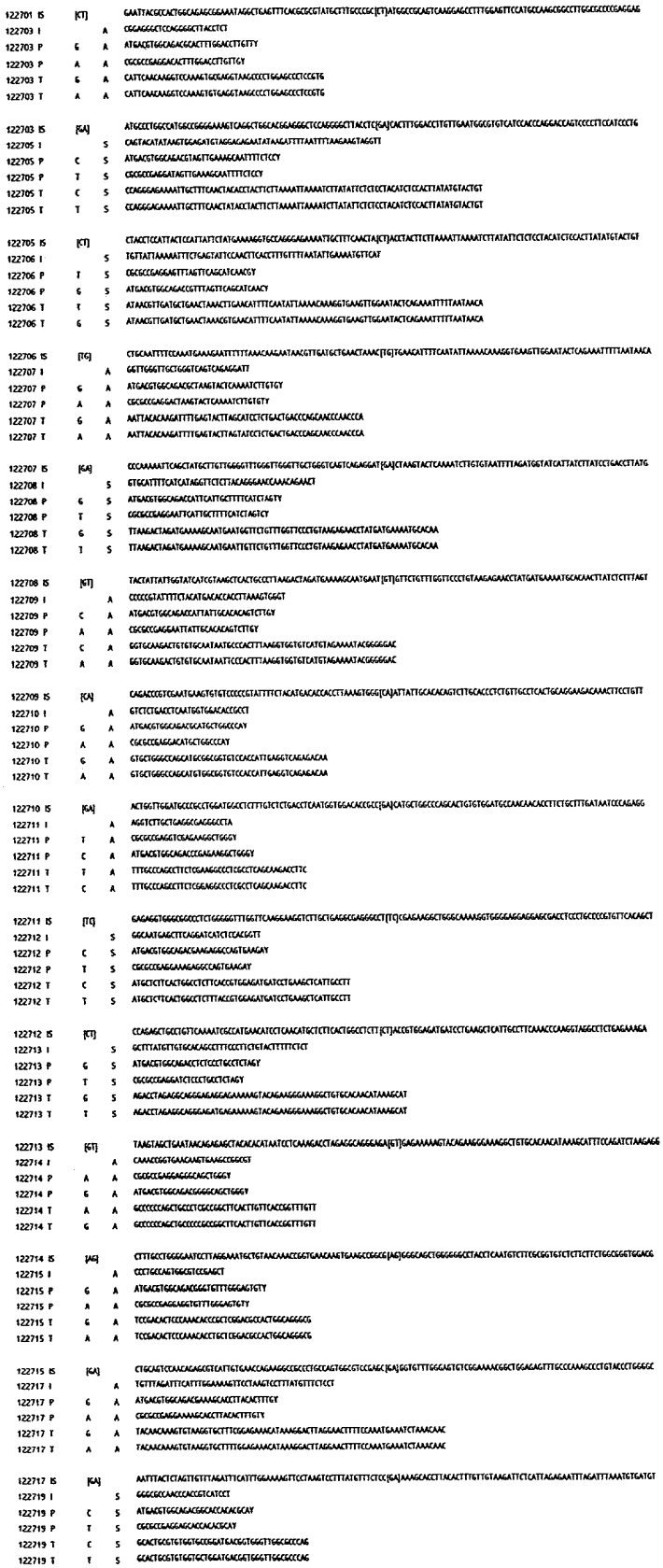


FIGURE 129G





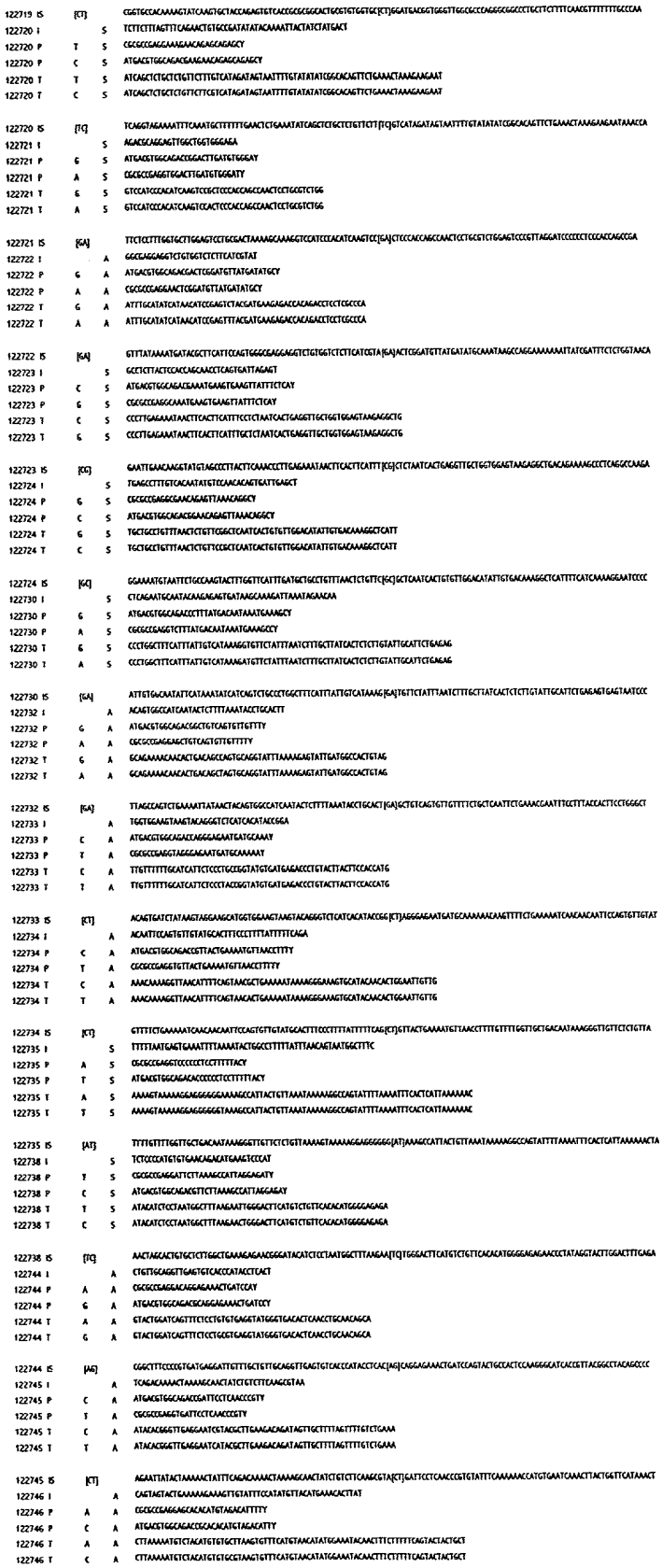
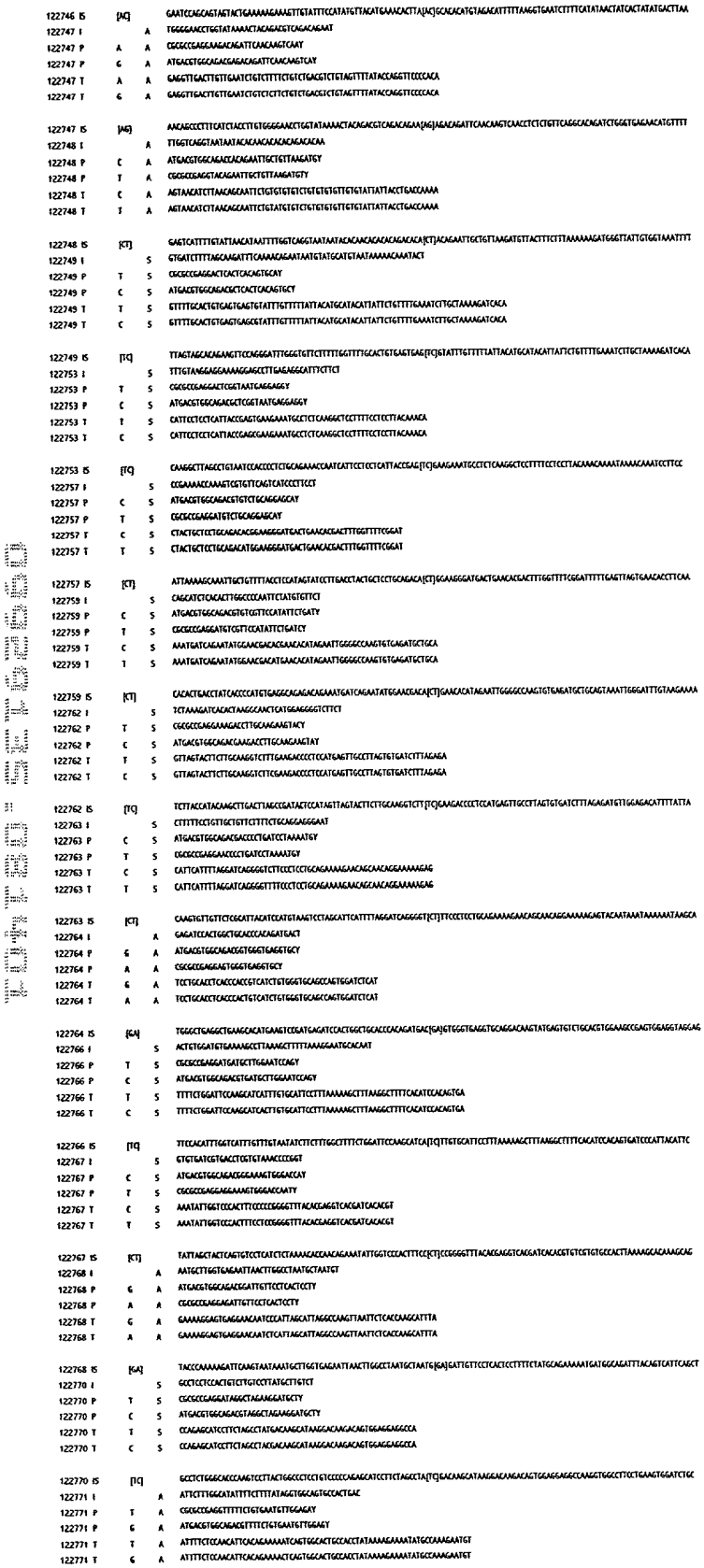


FIGURE 129G



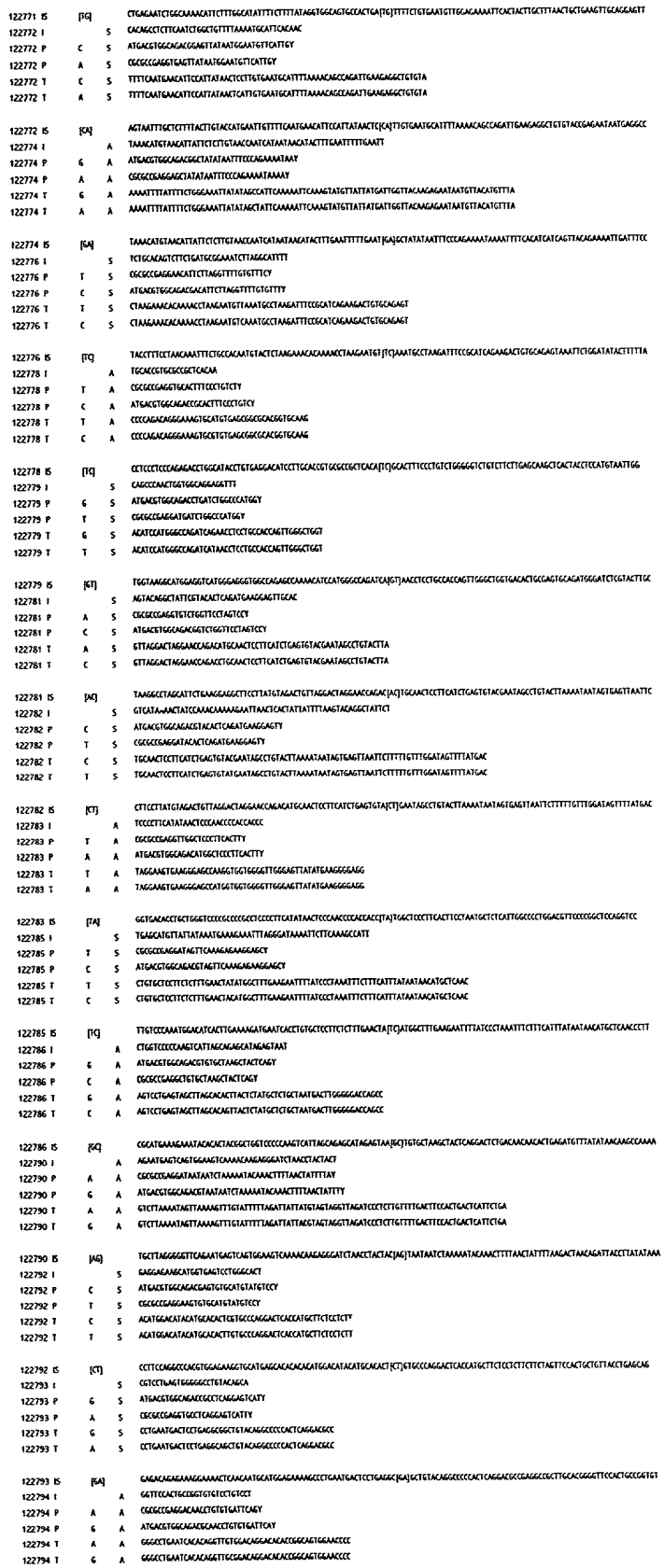
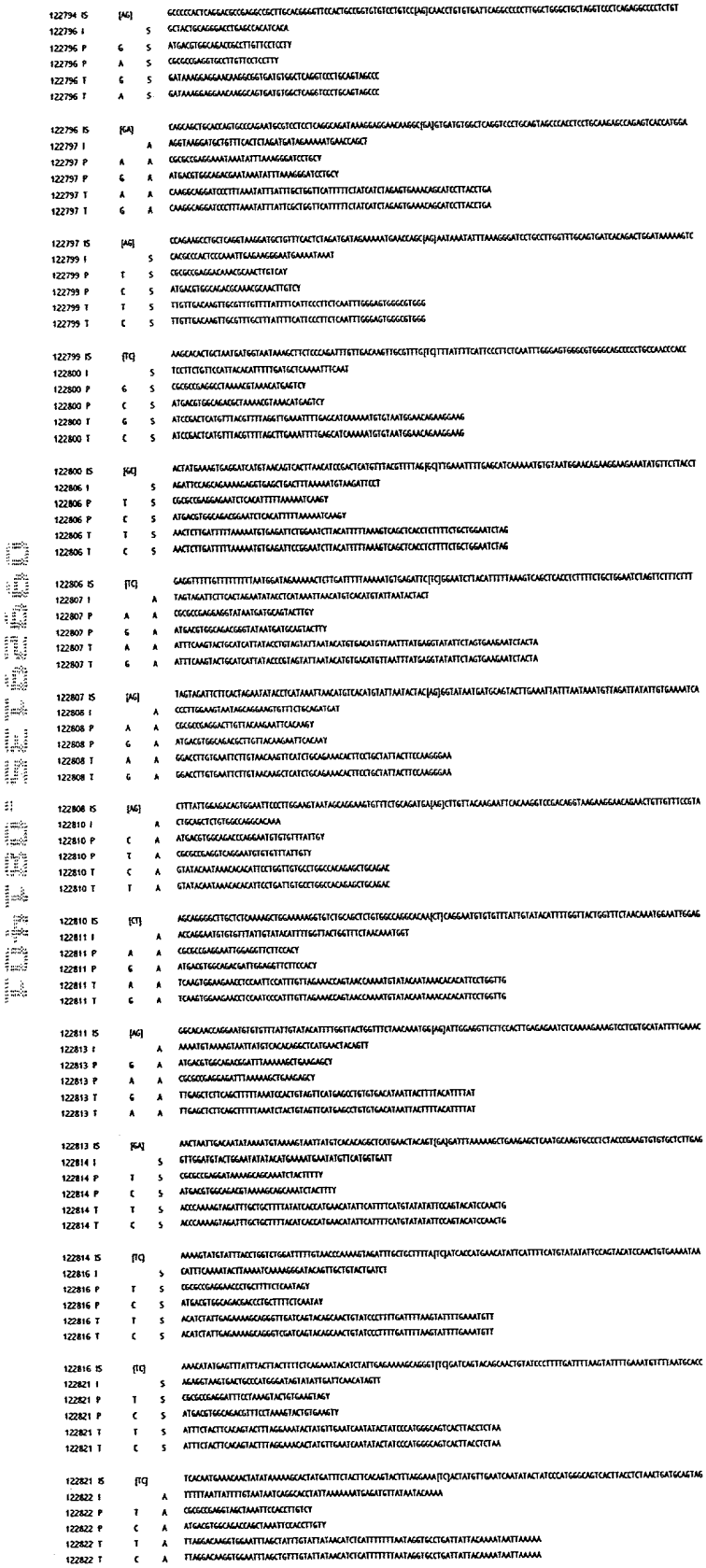


FIGURE 129G


122794 IS [AG] GCCCCCACTCAGGACGCCGAGGCCGCTTGCACGGGGTTCCACTGCCGGTGTGTCCTGTCC[AG]CAACCTGTGTGATTCAGGCCCCCTTGGCTGGGCTGCTAGGTCCCTCAGAGCCCCTCTGT
122796 I S GCTACTGCAGGGACCTGAGCCACATCACA
122796 P G S ATGACGTGGCAGACCGCCTTGTTCCTCCTT
122796 P A S CGCCCCGAGGTGCCTTGTTCCTCCTTY
122796 T G S GATAAAGGAGGAACAAGGCGGTGATGTGGCTCAGGTCCCTGCAGTAGCCC
122796 T A S GATAAAGGAGGAACAAGGCAGTGATGTGGCTCAGGTCCCTGCAGTAGCCC
122796 IS [GA] CAGCAGCTGCACCAGTGCCCAGAATGCGTCCTCCTCAGGCAGATAAAGGAGGAACAAGGC[GA]GTGATGTGGCTCAGGTCCCTGCAGTAGCCCAGCCTCCTCTGCAAGAGCCAGAGTCACCATGGA
122797 I A AGGTAAGGATGCTGTTTCACTCTAGATGATAGAAAAATGAACCAGCT
122797 P A A CGCGCCCAGGAAATAAATATTTAAAGGGATCCTGCY
122797 P G A ATGACGTGGCAGACGAATAAATATTTAAAGGGATCCTGCY
122797 T A A CAAGGCAGGATCCCTTAAATATTTATTTGCTGGTTCATTTTTCTATCATCTAGAGTGAAACAGGATCCTTACCTGA
122797 T G A CAAGGCAGGATCCCTTTAAATATTTATTGCTGGTTCATTTTTCTATCATCTAGAGTGAAACAGGATCCTTACCTGA
122797 IS [AG] CCAGAAGCCTGCTCAGGTAAGGATGCTGTTTCACTCTAGATGATAGAAAAATGAACCAGC[AG]AATAAATATTTAAAGGGATCCTGCCTTGCTTGGTTTGCAGTGATCACAGACTGGATAAAAAGTC
122799 I S CACGCCCACTCCCAAATTGAGAAGGGAATGAAAATAAAT
122799 P T S CGCGCCGAGGACAAACGCAACTTGTCAY
122799 P C S ATGACGTGGCAGACGCAAACGCAACTTGTCY
122799 T T S TTGTTGACAAGTTGCGTTTGTTTTATTTTCATTCCCTTCTCAATTTGGGAGTGGGCGTGGG
122799 T C S TTGTTGACAAGTTGCGTTTGCTTTATTTTCATTCCCTTCTCAATTTGGGAGTGGGCGTGGG
122799 IS [TC] AAGCACACTGCTAATGATGGTAATAAAGCTTCTCCCAGATTTGTTGACAAGTTGCGTTTG[TC]TTTATTTTCATTCCCTTCTCAATTTGGGAGTGGGCGTGGGCAGCCCCCTGCCAACCCACC
122800 I S TCCTTCTGTTCCATTACACATTTTTGATGCTCAAAATTTCAAT
122800 P G S CGCGCCGAGGCCTAAAACGTAAACATGAGTCY
122800 P C S ATGACGTGGCAGACGCAAACGCAACTTGTCY
122800 T G S ATCCGACTCATGTTTACGTTTTAGGTTGAAATTTTGAGCATCAAAAATGTGTAATGGAACAGAAGGAAG
122800 T C S ATCCGACTCATGTTTACGTTTTAGCTTGAAATTTTGAGCATCAAAAATGTGTAATGGAACAGAAGGAAG
122800 IS [GC] ACTATGAAAGTGAGGATCATGTAACAGTCACTTAACATCCGACTCATGTTTACGTTTTAG[GC]TTGAAATTTTGAGCATCAAAAATGTGTAATGGAACAGAAGGAAGAAATATGTTCTTACCT
122806 I S AGATTCCAGCAGAAAAGAGGTGAGCTGACTTTAAAAATGTAAGATTCCT
122806 P T S CGCGCCGAGGAGAATCTCACATTTTTAAAAATCAAGT
122806 P C S ATGACGTGGCAGACGGAATCTCACATTTTTAAAAATCAAGY
122806 T T S AACTCTTGATTTTTAAAAATGTGAGATTCTGGAATCTTACATTTTAAAGTCAGCTCACCTCTTTTCTGCTGGAATCTAG
122806 T C S AACTCTTGATTTTTAAAAATGTGAGATTCCGGAATCTTACATTTTAAAGTCAGCTCACCTCTTTTCTGCTGGAATCTAG
122806 IS [TC] GAGGTTTTTGTTTTTTTTTAATGGATAGAAAAACTCTTGATTTTTAAAAATGTGAGATTC[TC]GGAATCTTACATTTTTAAAGTCAGCTCACCTCTTTTCTGCTGGAATCTAGTTCTTTCTTT
122807 I A TAGTAGATTCTTCACTAGAATATAACCTCATAAATTAACATGTCACATGTATTAATACTACT
122807 P A A CGCGCCGAGGAGGTATAATGATGCAGTACTTGY
122807 P G A ATGACGTGGCAGACGGGTATAATGATGCAGTACTTY
122807 T A A ATTTCAAGTACTGCATCATTATACCTGTAGTATTAATACATGTGACATGTTAATTTATGAGGTATATTCTAGTGAAGAATCTACTA
122807 T G A ATTTCAAGTACTGCATCATTATACCCGTAGTATTAATACATGTGACATGTTAATTTATGAGGTATATTCTAGTGAAGAATCTACTA
122807 IS [AG] TAGTAGATTCTTCACTAGAATATACCTCATAAATTAACATGTCACATGTATTAATACTAC[AG]GGTATAATGATGCAGTACTTGAAATTATTTAATAAATGTTAGATTATATTGTGAAAATCA
122808 I A CCCTTGGAAGTAATAGCAGGAAGTGTTTCTGCAGATGAT
122808 P A A CGCGCCGAGGACTTGTTACAAGAATTCACAAGY
122808 P G A ATGACGTGGCAGACGCTTGTTACAAGAATTCACAAY
122808 T A A GGACCTTGTGAATTCTTGTAACAAGTTCATCTGCAGAAACACTTCCTGCTATTACTTCCAAGGGAA
122808 T G A GGACCTTGTGAATTCTTGTAACAAGCTCATCTGCAGAAACACTTCCTGCTATTACTTCCAAGGGAA
122808 IS [AG] CTTTATTGGAGACAGTGGAATTCCCTTGGAAGTAATAGCAGGAAGTGTTTCTGCAGATGA[AG]CTTGTTACAAGAATTCACAAGGTCCGCACAGGTAAGAAGGAACAGAACTGTTGTTTCCSTA
122810 I A CTGCAGCTCTGTGGCCAGGCACAAA
122810 P C A ATGACGTGGCAGACCCAGGAATGTGTGTTTATTGY
122810 P T A CGCGCCGAGGTCAGGAATGTGTGTTTATTGTY
122810 T C A GTATACAATAAACACACATTCCTGGTTGTGCCTGGCCACAGAGCTGCAGAC
122810 T T A GTATACAATAAACACACATTCCTGATTGTGCCTGGCCACAGAGCTGCAGAC
122810 IS [CT] AGCAGGGGCTTGCTCTCAAAAGCTGCAAAAAGGTGTCTGCAGCTCTGTGGCCAGGCACAA[CT]CAGGAATGTGTGTTTATTGTATACATTTTGGTTACTGGTTTCTAACAAATGGAATTGGAG
122811 I A ACCAGGAATGTGTGTTTATTGTATACATTTTGGTTACTGGTTTCTAACAAATGGT
122811 P A A CGCGCCGAGGAATTGGAGGTTCTTCCACY
122811 P G A ATGACGTGGCAGACGATTGGAGGTTCTTCCACY
122811 T A A TCAAGTGGAAGAACCTCCAATTCCATTTGTTAGAAACCAGTAACCAAAATGTATACAATAAACACACATTCCTGGTTG
122811 T G A TCAAGTGGAAGAACCTCCAATCCCATTTGTTAGAAACCAGTAACCAAAATGTATACAATAAACACACATTCCTGGTTG
122811 IS [AG] GGCACAACCAGGAATGTGTGTTTATTGTATACATTTTGGTTACTGGTTTCTAACAAATGG[AG]ATTGGAGGTTCTTCCACTTGAGAGAATCTCAAAAGAAAGTCCTCGTGCATATTTTGAAAC
122813 I A AAAATGTAAAAGTAATTATGTCACACAGGCTCATGAACTACAGTT
122813 P G A ATGACGTGGCAGACGGATTTAAAAAGCTGAAGAGCY
122813 P A A CGCGCCGAGGAGATTTAAAAAGCTGAAGAGCY
122813 T G A TTGAGCTCTTCAGCTTTTTAAATCCACTGTAGTTCATGAGCCTGTGTGACATAATTACTTTTACATTTTAT
122813 T A A TTGAGCTCTTCAGCTTTTTAAATCTACTGTAGTTCATGAGCCTGTGTGACATAATTACTTTTACATTTTAT
122813 IS [GA] AACTAATTGACAATATAAAATGTAAAAGTAATTATGTCACACAGGCTCATGAACTACAGT[GA]GATTTAAAAAGCTGAAGAGCTCAATGCAAGTGCCCTCTACCCGAAGTGTGTGCTCTTGAG
122814 I S GTTGGATGTACTGGAATATATACATGAAAATGAATATGTTCATGGTGATT
122814 P T S CGCGCCGAGGATAAAAGCAGCAAATCTACTTTTY
122814 P C S ATGACGTGGCAGACGTAAAAGCAGCAAATCTACTTTY
122814 T T S ACCCAAAAGTAGATTTGCTGCTTTTATATCACCATGAACATATTCATTTTCATGTATATATTCCAGTACATCCAACTG
122814 T C S ACCCAAAAGTAGATTTGCTGCTTTTACATCACCATGAACATATTCATTTTCATGTATATATTCCAGTACATCCAACTG
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122816 I S CATTTCAAAATACTTAAAATCAAAAGGGATACAGTTGCTGTACTGATCT
122816 P T S CGCGCCGAGGAACCCTGCTTTTCTCAATAGY
122816 P C S ATGACGTGGCAGACGACCCTGCTTTTCTCAATAY
122816 T T S ACATCTATTGAGAAAAGCAGGGTTGATCAGTACAGCAACTGTATCCCTTTTGATTTTAAGTATTTTGAAATGTT
122816 T C S ACATCTATTGAGAAAAGCAGGGTCGATCAGTACAGCAACTGTATCCCTTTTGATTTTAAGTATTTTGAAATGTT
122816 IS [TC] AAACATATGAGTTTATTTACTTATTTTCTCAGAAATACATCTATTGAGAAAAGCAGGGT[TC]GATCAGTACAGCAACTGTATCCCTTTTGATTTTAAGTATTTTGAAATGTTTAATGCACC
122821 I S AGAGCTAAGTGACTGCCCATGGGATAGTATATTGATTCAACATAGTT
122821 P T S CGCGCCGAGGATTTCCTAAAGTACTGTGAAGTAGY
122821 P C S ATGACGTGGCAGACGTTTCCTAAAGTACTGTGAAGTY
122821 T T S ATTTCTACTTCACAGTACTTTAGGAAATACTATGTTGAATCAATATACTATCCCATGGGCAGTCACTTACCTCTAA
122821 T C S ATTTCTACTTCACAGTACTTTAGGAAACACTATGTTGAATCAATATACTATCCCATGGGCAGTCACTTACCTCTAA
122821 IS [TC] TCACAATGAAACAACTATATAAAAAGCACTATGATTTCTACTTCACAGTACTTTAGGAAA[TC]ACTATGTTGAATCAATATACTATCCCATGGGCAGTCACTTACCTCTAACTGATGCAGTAG
122822 I A TTTTTAATTATTTTGTAATAATCAGGCACCTATTAAAAAATGAGATGTTATAAATACAAAA
122822 P T A CGCGCCGAGGTAGCTAAATTCCACCTTGTCY
122822 P C A ATGACGTGGCAGACCCAGCTAAATTCCACCTTGTY
122822 T T A TTAGGACAAGGTGGAATTTAGCTATTTGTATTATAACATCTCATTTTTTTTAATAGGTGCCTGATTATTACAAAATAATTAAAAA
122822 T C A TTAGGACAAGGTGGAATTTAGCTGTTTGTATTATAACATCTCATTTTTTTAATAGGTGCCTGATTATTACAAAATAATTAAAAA

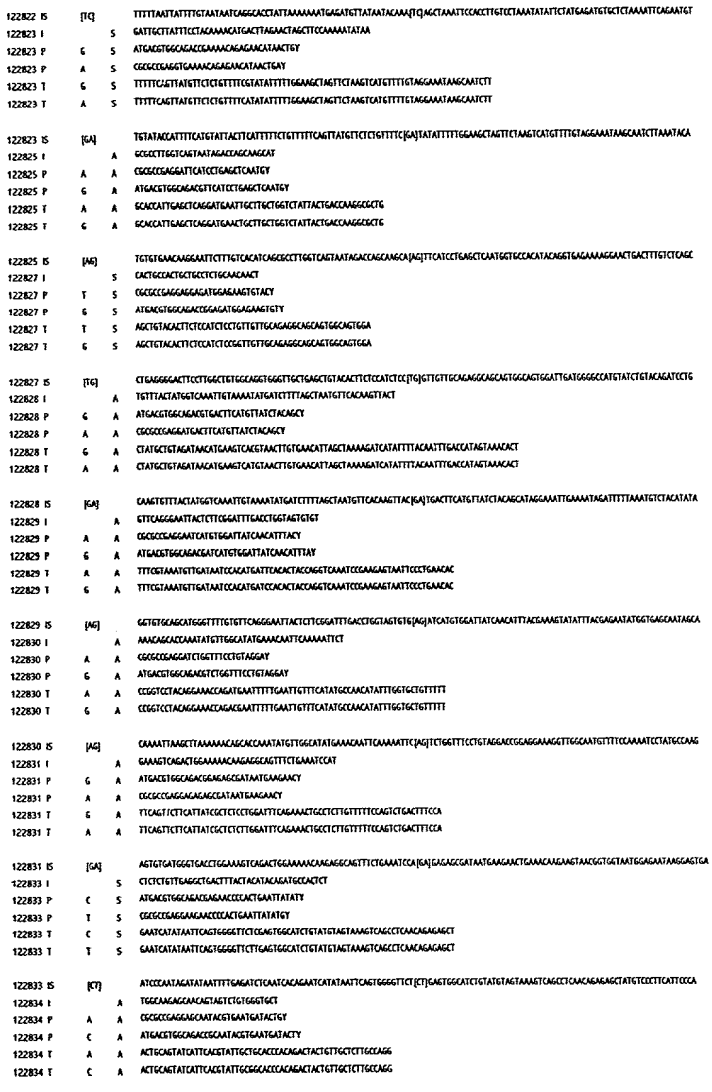


FIGURE 129G

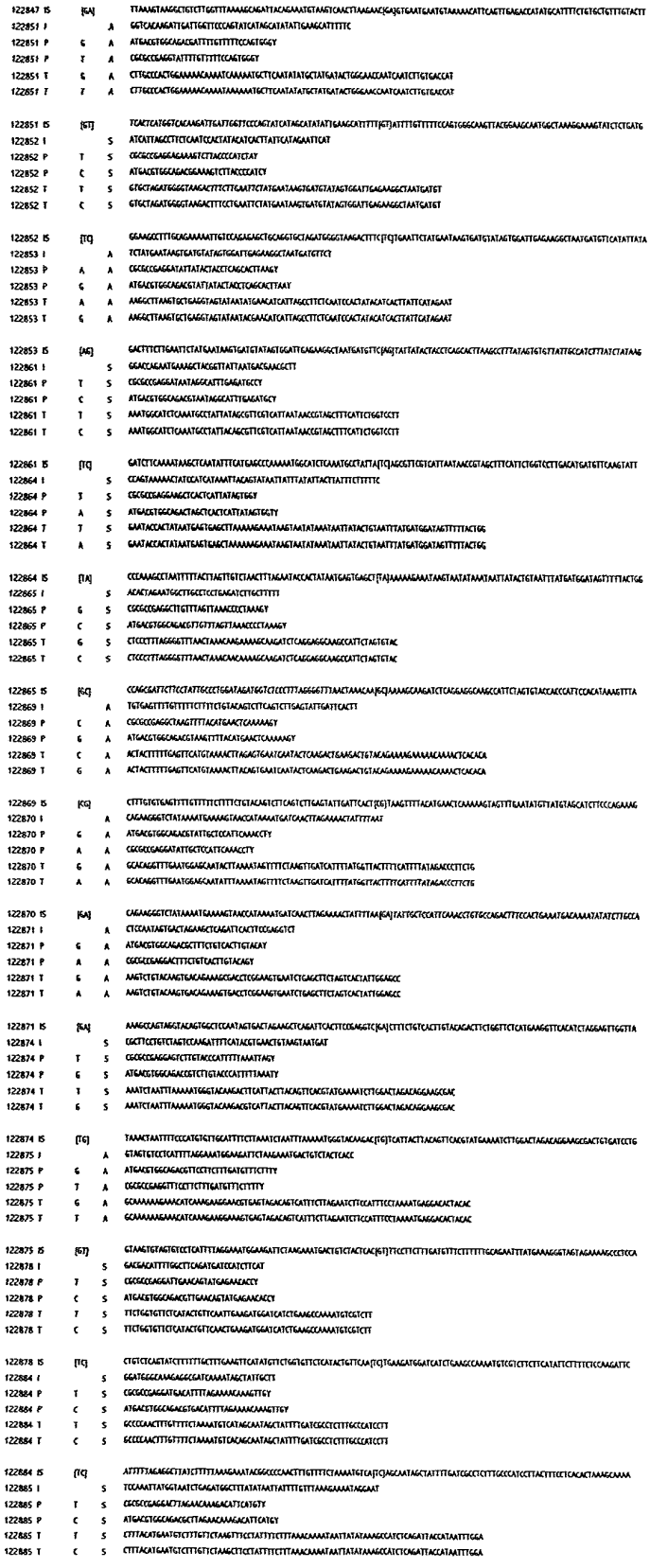
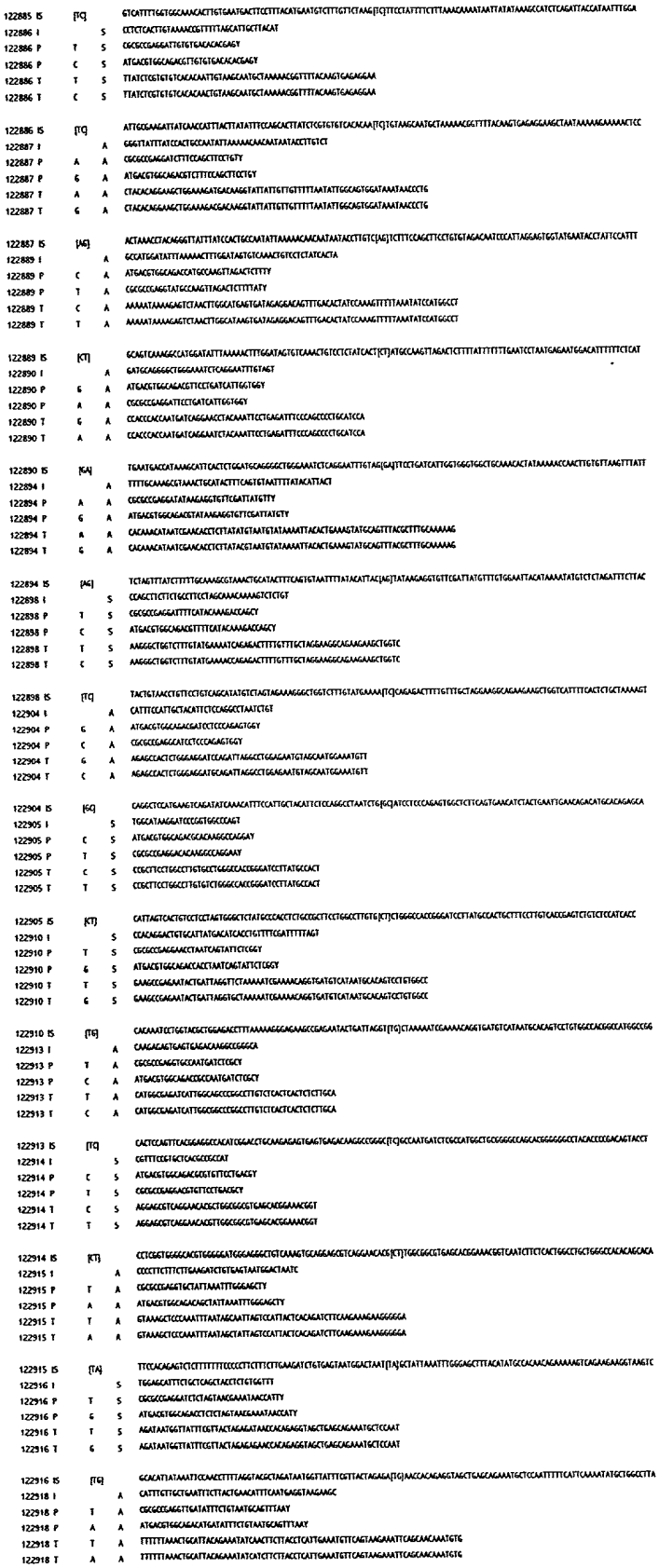
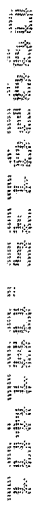


FIGURE 129G



SUBSTITUTE SHEET (RULE 26)



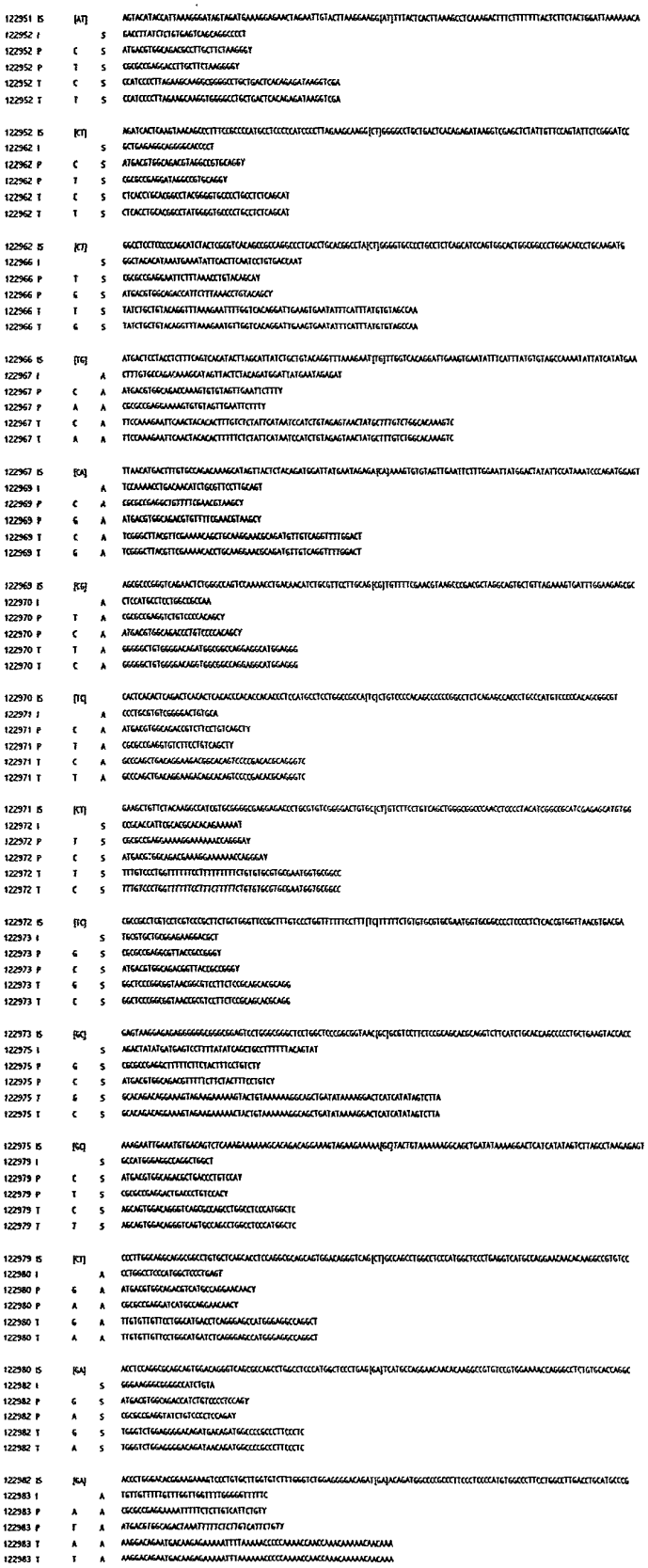

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122952 I S GACCTTATCTCTGTGAGTCAGCAGGCCCCT
122952 P C S ATGACGTGGCAGACGCCTTGCTTCTAAGGGY
122952 P T S CGCGCCCAGCACCTTGCTTCTAAGGGGY
122952 T C S CCATCCCCTTAGAAGCAAGCTGGGGCCTGCTGACTCACAGAGATAAGGTCGA
122952 T T S CCATCCCCTTAGAAGCAAGCTGGGGCCTGCTGACTCACAGAGATAAGGTCGA
122952 IS [CT] AGATCACTCAAGTAACAGCCTTTCCGCCCCATGCCTCCCCATCCCTTAGAAGCAAGG[CT]GGGGCCTGCTGACTCACAGAGATAAGGTCGAGCTCTATTGTTCCAGTATTCTCGGGATCC
122962 I S GCTGAGAGGCAGGGGCACCCCT
122962 P C S ATGACGTGGCAGACGTAGGCCGTGCAGGY
122962 P T S CGCGCCCAGGATAGGCCCGTGCAGGY
122962 T C S CTCACCYGCACGGCCTACGGGGTGCCCCTGCCTCTCAGCAT
122962 T T S CTCACCTGCACGCCTATGGGGTGCCCCTGCCTCTCAGCAT
122962 IS [CT] GGCCTCCTCCCCAGCATCTACTCGCGTCACAGCCGCCAGGCCCTCACCTGCACGGCCTA[CT]GGGGTGCCCCTGCCTCTCAGCATCCAGTGGCACTGGCGGCCCTGGACACCCTGCAAGATG
122966 I S GGCTACACATAAATGAAATATTCACTTCAATCCTGTGACCAAT
122966 P T S CGCGCCGAGGAATTCTTTAAACCTGTACAGCAY
122966 P G S ATGACGTGGCAGACCATTCTTTAAACCTGTACAGCY
122966 T T S TATCTGCTGTACAGGTTTAAAGAATTTTGGTCACAGGATTGAAGTGAATATTTCATTTATGTGTAGCCAA
122966 T G S TATCTGCTGTACAGGTTTAAAGAATGTTGGTCACAGGATTGAAGTGAATATTTCATTTATGTGTAGCCAA
122966 IS [TG] ATGACTCCTACCTCTTTCAGTCACATACTTAGCATTATCTGCTGTACAGGTTTAAAGAATT[TG]TTGGTCACAGGATTGAAGTGAATATTTCATTTATGTGTAGCCAAAATATTATCATATGAA
122967 I A CTTTGTGCCAGACAAAGCATAGTTACTCTACAGATGGATTTATGAATAGAGA
122967 P C A ATGACGTGGCAGACCAAAGTGTGTAGTTGAATTCTTTY
122967 P A A CGCGCCGAGGAAAAGTGTGTAGTTGAATTCTTTY
122967 T C A TTCCAAAGAATTCAACTACACACTTTGTCTCTATTCATAATCCATCTGTAGAGTAACTATGCTTTGTCTGGCACAAAGTC
122967 T A A TTCCAAAGAATTCAACTACACACTTTTTCTCTATTCATAATCCATCTGTAGAGTAACTATGCTTTGTCTGGCACAAAGTC
122967 IS [CA] TTAACATGACTTTGTGCCAGACAAAGCATAGTTACTCTACAGATGGATTATGAATAGAGA[CA]AAAGTGTGTAGTTGAATTCTTTGGAATTATGGACTATATTCCATAAATCCCAGATGGAGT
122969 I A TCCAAAACCTGACAACATCTGCGTTCCTTGCAGT
122969 P C A CGCGCCGAGGCTGTTTCGAACGTAAGCY
122969 P G A ATGACGTGGCAGACGTGTTTCGAACGTAAGCY
122969 T C A TCGGGCTTACGTTCGAAAACAGCTGCAAGCAACGCAGATGTTGTCAGGTTTTGGACT
122969 T G A TCGGGCTTACGTTCGAAAACAGCTGCAAGCAACGCAGATGTTGTCAGGTTTTGGACT
122969 IS [CG] AGCGCCCGGGTCAGAACTCTGGGCCAGTCCAAAACCTGACAACATCTGCGTTCCTTGCAG[CG]TGTTTTCGAACGTAAGCCCGACGCTAGGCAGTGCTGTTAGAAAGTGATTTGGAAGAGCGC
122970 I A CTCCATGCCTCCTGGCCGCCAA
122970 P T A CGCGCCGAGGTCTGTCCCCACAGCY
122970 P C A ATGACGTGGCAGACCCTGTCCCCACAGCY
122970 T T A GGGGGCTGTGGGGACAGATGGCCGCCAGGAGGCATGGAGGG
122970 T C A GGGGGCTGTGGGGACAGGTGGCGCCCAGGAGGCATGGAGGG
122970 IS [TC] CACTCACACTCAGACTCACACTCACACCCACACCACACCCTCCATGCCTCCTGGCCGCCA[TC]CTGTCCCCACAGCCCCCCGGCCTCTCAGAGCCACCCTGCCCATGTCCCCCACAGCGGCGT
122971 I A CCCTGCGTGTCGGGGCACTGTGCA
122971 P C A ATGACGTGGCAGACCGTCTTCCTGTCAGCTY
122971 P T A CGCGCCGAGGTGTCTTCCTGTCAGCTY
122971 T C A GCCCAGCTGACAGGAAGACAGGCACAGTCCCCGACACGCAGGGTC
122971 T T A GCCCAGCTGACAGGAAGACAGCACAGTCCCCGACACGCAGGGTC
122971 IS [CT] GAAGCTGTTCTACAAGGCCATCGTGCGGGGCGAGGAGACCCTGCGTGTCGGGGACTGTGC[CT]GTCTTCCTGTCAGCTGGGCGCCCCAACCTCCCCTACATCGGCCCATCGAGAGCATGTGG
122972 I S CCGCACCATTCGCACGCACACAGAAAAT
122972 P T S CGCGCCGAGGAAAAGGAAAAAACCAGGGAY
122972 P C S ATGACGTGGCAGACGAAAGGAAAAACCAGGGAY
122972 T T S TTTGTCCCTGGTTTTTTCCTTTTTTTTCTGTGTGCGTGCGAATGGTGCGGCC
122972 T C S TTTGTCCCTGGTTTTTTCCTTTCTTTTTCTGTGTGCGTGCGAATGGTGCGGCC
122972 IS [TC] CGCCGCCTGTCCTCGTCCCGCTCTGCTGGGTTCCGCTTTGTCCCTGGTTTTTTCCTTT[TC]TTTTTCTGTGTGCGTGCGAATGGTGCGGCCCCTCCCCTCTCACGGTGGTTAACGTGACGA
122973 I S TGCGTGCTGCGGAGAAGGACGCT
122973 P G S CGCGCCGAGGGTTACCGCCGGGY
122973 P C S ATGACGTGGCAGACGGTTACCGCCGGGY
122973 T G S GGCTCCCGGCGGTAACGGCGTCCTTCTCCGCAGCACGCAGG
122973 T C S GGCTCCCGGCGGTAACCCGTCCTTCTCCGCAGCACGCAGG
122973 IS [GC] GAGTAAGGAGAGAGGGGGGCGGGCGGAGTCCTGGGCGGGCTCCTGGCTCCCGCGGTAAC[GC]GCGTCCTTCTCCGCAGCACGCAGGTCTTCATCTGCACCAGCCCCCTGCTGAAGTACCACC
122975 I S AGACTATATGATGAGTCCTTTTATATCAGCTGCCTTTTTACAGTAT
122975 P G S CGCGCCGAGGCTTTTCTTCTACTTCCTGTCTY
122975 P C S ATGACGTGGCAGACGTTTTCTTCTACTTTCCTGTCY
122975 T G S GCACAGACAGGAAAGTAGAAGAAAAAGTACTGTAAAAAAGGCAGCTGATATAAAAGGACTCATCATATAGTCTTA
122975 T C S GCACAGACAGGAAAGTAGAAGAAAAACTACTGTAAAAAAGGCAGCTGATATAAAAGGACTCATCATATAGTCTTA
122975 IS [GC] AAAGAATTGAAATGTGACAGTCTCAAAGAAAAAGCACAGACAGGAAAGTAGAAGAAAAA[GC]TACTGTAAAAAAGGCAGCTGATATAAAAGGACTCATCATATAGTCTTAGCCTAACAGAGT
122979 I S GCCATGGGAGCCAGGCTGGCT
122979 P C S ATGACGTGGCAGACGCTGACCCTGTCCAY
122979 P T S CGCGCCGAGACTGACCCTGTCCAGY
122979 T C S AGCAGTGGACAGGGTCAGGCCAGCCTGGCCTCCCATGGCTC
122979 T T S AGCAGTGGACAGGGTCAGTGCCAGCCTGGCCTCCCATGGCTC
122979 IS [CT] CCCTTGGCAGGCAGGCGGCCTGTGCTCAGCACCTCCAGGCGCAGCAGTGGACAGGGTCAG[CT]GCCAGCCTGGCCTCCCATGGCTCCCTGAGGTCATGCCAGGAACAACACAGGCCGTGTCC
122980 I A CCTGGCCTCCCATGGCTCCCTGAGT
122980 P G A ATGACGTGGCAGACGCTCATGCCAGGAACAACY
122980 P A A CGCGCCGAGGATCATGCCAGGAACAACY
122980 T G A TTGTGTTGTTCCTGGCATGACCTCAGGGAGCCATGGGAGGCCAGGCT
122980 T A A TTGTGTTGTTCCTGGCATGATCTCAGGGAGCCATGGGAGGCCAGGCT
122980 IS [GA] ACCTCCAGGCGCAGCAGTGGACAGGGTCAGCGCCAACCTGGCCTCCCATGGCTCCCTGAG[GA]TCATGCCAGGAACAACACAGGCCGTGTCCGTGGAAAACCAGGGCCTCTGTGCACCAGGC
122982 I S GGGAAGGGCGGGGCCATCTGTA
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122982 P A S CGCGCCGAGGTATCTGTCCCCTCCAGAT
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122983 I A TGTTGTTTTGTTTGGTTGGTTTTGGGGGTTTTTC
122983 P A A CGCGCCGAGAAAATTTTTCTCTTGTCATTCTGTY
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122983 T A A AAGGACAGAATGACAAGAGAAAAATTTTAAAAACCCCCAAAACCAACCAAACAAAAACAACAAA
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FIGURE 129G

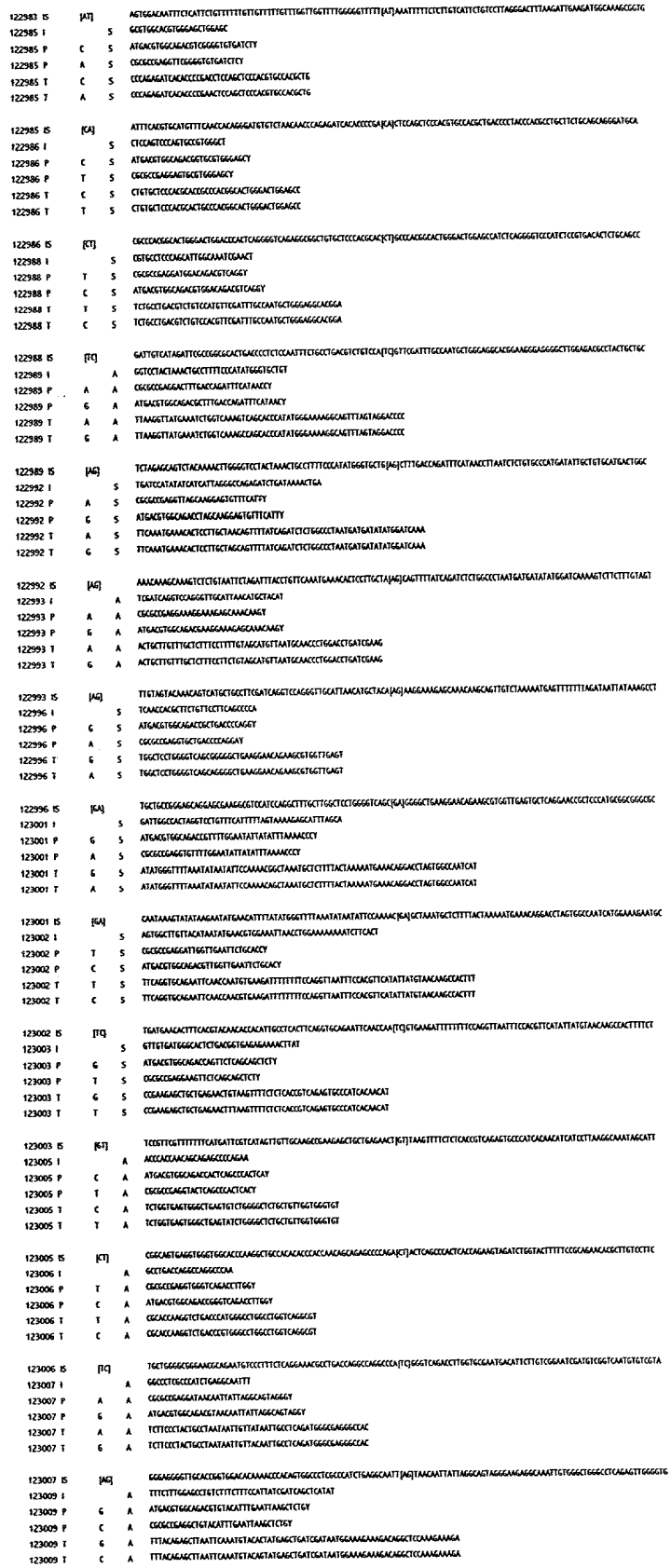
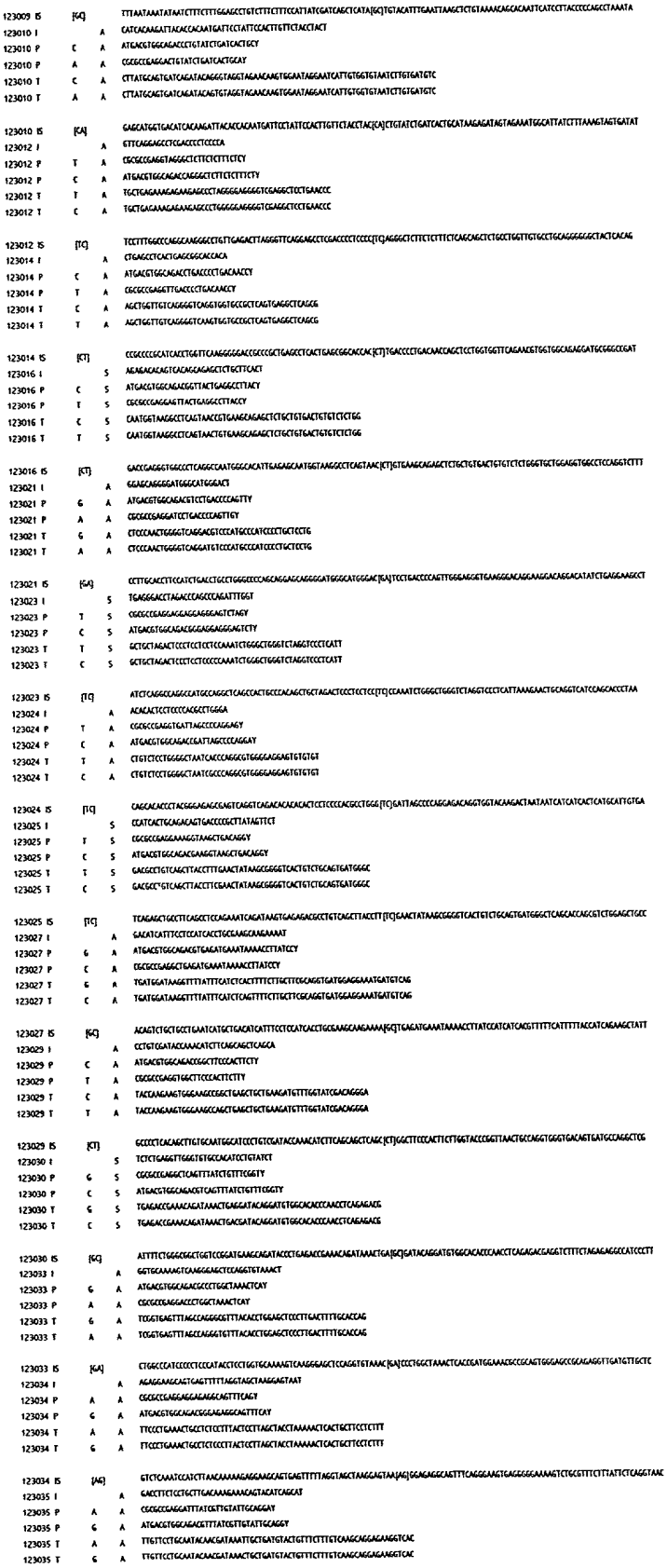

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122985 I S GCGTGGCACGTGGGAGCTGGAGC
122985 P C S ATGACGTGGCAGACGTCGGGGTGTGATCTY
122985 P A S CGCGCCGAGGTTCGGGGTGTGATCTCY
122985 T C S CCCAGAGATCACACCCCGAACTCCAGCTCCCACGTGCCACGCTG
122985 T A S CCCAGAGATCACACCCCGAACTCCAGCTCCCACGTGCCACGCTG
122985 IS [CA] ATTTCACGTGCATGTTTCAACCACAGGGATGTGTCTAAGAACCCAGAGATCACACCCCGA[CA]CTCCAGCTCCCACGTGCCACGCTGACCCCTACCCACGCCTGCTTCTGCAGCAGGGATGCA
122986 I S CTCCAGTCCCAGTGCCGTGGGCT
122986 P C S ATGACGTGGCAGACGGTGCGTGGGAGCY
122986 P T S CGCGCCGAGGAGTGCGTGGGAGCY
122986 T C S CTGTGCTCCCACGCACCGCCCACGGCACTGGGACTGGAGCC
122986 T T S CTGTGCTCCCACGCACTGCCCACGGCACTGGGACTGGAGCC
122986 IS [CT] CGCCCACGGCACTGGGACTGGACCCACTCAGGGGTCAGAGGCGGCTGTGCTCCCACGCAC[CT]GCCCACGGCACTGGGACTGGAGCCATCTCAGGGGTCCCATCTCCGTGACACTCTGCAGCC
122988 I S CGTGCCTCCCAGCATTGGCAAATCGAACT
122988 P T S CGCGCCGAGGATGGCACAGACGTCAGGY
122988 P C S ATGACGTGGCAGACGTGGACAGACGTCAGGY
122988 T T S TCTGCCTGACGTCTGTCCATGTTCGATTTGCCAATGCTGGGAGGCACGGA
122988 T C S TCTGCCTGACGTCTGTCCACGTTCGATTTGCCAATGCTGGGAGGCACGGA
122988 IS [TC] GATTGTCATAGATTCGCCGGGCGCACTGACCCCTCTCCAATTTCTGCCTGACGTCTGTCCA[TC]GTTCGATTTGCCAATGCTGGGAGGCACGGAAGGGAGGGCTTGGAGACGCCTACTGCTGC
122989 I A GGTCCTACTAAACTGCCTTTTCCCATATGGGTGCTGT
122989 P A A CGCGCCGAGGACTTTGACCAGATTTCATAACCY
122989 P G A ATGACGTGGCAGACGCTTTGACCAGATTTCATAACY
122989 T A A TTAAGGTTATGAAATCTGGTCAAAGTCAGCACCCATATGGGAAAAGGCAGTTTAGTAGGACCCC
122989 T G A TTAAGGTTATGAAATCTGGTCAAAGCCAGCACCCATATGGGAAAAGGCAGTTTAGTAGGACCCC
122989 IS [AG] TCTAGAGCAGTCTACAAAACTTGGGGTCCTACTAAACTGCCTTTTCCCATATGGGTGCTG[AG]CTTTGACCAGATTTCATAACCTTAATCTCTGTGCCCATGATATTGCTGTGCATGACTGGC
122992 I S TGATCCATATATCATCATTAGGGCCAGAGATCTGATAAAACTGA
122992 P A S CGCGCCGAGGTTAGCAAGGAGTGTTTCATTY
122992 P G S ATGACGTGGCAGACCTAGCAAGGAGTGTTTCATTY
122992 T A S TTCAAATGAAACACTCCTTGCTAACAGTTTTATCAGATCTCTGGCCCTAATGATGATATATGGATCAAA
122992 T G S TTCAAATGAAACACTCCTTGCTAGCAGTTTTATCAGATCTCTGGCCCTAATGATGATATATGGATCAAA
122992 IS [AG] AAACAAAGCAAAGTCTCTCTGTAATTCTAGATTTACCTGTTCAAATGAAACACTCCTTGCTA[AG]CAGTTTTATCAGATCTCTGGCCCTAATGATGATATATGGATCAAAGTCTTCTTTGTAGT
122993 I A TCGATCAGGTCCAGGGTTGCATTAACATGCTACAT
122993 P A A CGCGCCGAGGAAAGGAAAGAGCAAACAAGY
122993 P G A ATGACGTGGCAGACGAAGGAAAGAGCAAACAAGY
122993 T A A ACTGCTTGTTTGCTCTTTCCTTTTGTAGCATGTTAATGCAACCCTGGACCTGATCGAAG
122993 T G A ACTGCTTGTTTGCTCTTTCCTTCTGTAGCATGTTAATGCAACCCTGGACCTGATCGAAG
122993 IS [AG] TTGTAGTACAAACAGTCATGCTGCCTTCGATCAGGTCCAGGGTTGCATTAACATGCTACA[AG]AAGGAAAGAGCAAACAAGCAGTTGTCTAAAAATGAGTTTTTTAGATAATTATAAAGCCT
122996 I S TCAACCACGCTTCTGTTCCTTCAGCCCCA
122996 P G S ATGACGTGGCAGACGCTGACCCCAGGAY
122996 P A S CGCGCCGAGGTGCTGACCCCAGGAY
122996 T G S TGGCTCCTGGGGTCAGCGGGGGCTGAAGGAACAGAAGCGTGGTTGAGT
122996 T A S TGGCTCCTGGGGTCAGCAGGGGCTGAAGGAACAGAAGCGTGGTTGAGT
122996 IS [CA] TGCTGCGGGAGCAGGAGCGAAGGGTCCATCCAGGCTTGCTTGGCTCCTGGGGTCAGC[GA]CGGGCTGAAGGAACAGAAGCGTGGTTGAGTGCTCAGGAACCGCTCCCATGCGGCGGCCGC
123001 I S GATTGGCCACTAGGTCCTGTTTCATTTTTAGTAAAAGAGCATTTAGCA
123001 P G S ATGACGTGGCAGACCGTTTGGAATATTATATTTAAAACCCY
123001 P A S CGCGCCGAGGTGTTTGGAATATTATATTTAAAACCCY
123001 T G S ATATGGGTTTTAAATATAATATTCCAAAACGGCTAAATGCTCTTTTACTAAAAATGAAACAGGACCTAGTGGCCAATCAT
123001 T A S ATATGGGTTTTAAATATAATATTCCAAAACAGCTAAATGCTCTTTTACTAAAAATGAAACAGGACCTAGTGGCCAATCAT
123001 IS [GA] CAATAAAGTATATAAGAATATGAACATTTTATATGGGTTTAAATATAATATTCCAAAAC[GA]GCTAAATGCTCTTTTACTAAAAATGAAACAGGACCTAGTGGCCAATCATGGAAAGAATGC
123002 I S AGTGGCTTGTTACATAATATGAACGTGGAAATTAACCTGGAAAAAAAATCTTCACT
123002 P T S CGCGCCCAGGATTGGTTGAATTCTGCACCY
123002 P C S ATGACGTGGCAGACGTTGGTTGAATTCTGCACY
123002 T T S TTCAGGTGCAGAATTCAACCAATGTGAAGATTTTTTTTCCAGGTTAATTTCCACGTTCATATTATGTAACAAGCCACTTT
123002 T C S TTCAGGTGCAGAATTCAACCAACGTGAAGATTTTTTTTCCAGGTTAATTTCCACGTTCATATTATGTAACAAGCCACTTT
123002 IS [TC] TGATGAACACTTTCACGTACAACACCACATTGCCTCACTTCAGGTGCAGAATTCAACCAA[TC]GTGAAGATTTTTTTTCCAGGTTAATTTCCACGTTCATATTATGTAACAAGCCACTTTTCT
123003 I S GTTGTGATGGGCACTCTGACGGTGAGAGAAAACTTAT
123003 P G S ATGACGTGGCAGACCAGTTCTCAGCAGCTCTY
123003 P T S CGCGCCGAGGAAGTTCTCAGCAGCTCTY
123003 T G S CCGAAGAGCTGCTGAGAACTGTAAGTTTTCTCTCACCGTCAGAGTGCCCATCACAACAT
123003 T T S CCGAAGAGCTGCTGAGAACTTTAAGTTTTCTCTCACCGTCAGAGTGCCCATCACAACAT
123003 IS [GT] TCCGTTCGTTTTTTTCATGATTCGTCATAGTTGTTGCAAGCCGAAGAAGCTGCTGAGAACT[GT]TAAGTTTTCTCTCACCGTCAGAGTGCCCATCACAACATCATCCTTAAGGCAAATAGCATT
123005 I A ACCCACCAACAGCAGAGCCCCAGAA
123005 P C A ATGACGTGGCAGAACCACTCAGCCCACTCAY
123005 P T A CGCGCCCAGGTACTCAGCCCACTCACY
123005 T C A TCTGGTGAGTGGGCTGAGTGTCTGGGGCTCTGCTGTTGGTGGGTGT
123005 T T A TCTGGTGAGTGGGCTGAGTATCTGGGGCTCTGCTGTTGGTGGGTGT
123005 IS [CT] CGGCAGTGAGGTGGGTGGCACCCAAGGCTGCCACACACCCACCAACAGCAGAGCCCCAGA[CT]ACTCAGCCCACTCACCAGAAGTAGATCTGGTACTTTTTCCCGCAGAACAGCTTGTCCTTC
123006 I A GCCTGACCAGGCCAGGCCCAA
123006 P T A CGCGCCGAGGTGGGTCAGACCTTGGY
123006 P C A ATGACGTGGCAGACCGGGTCAGACCTTGGY
123006 T T A CGCACCAAGGTCTGACCCATGGGCCTGGCCTGGTCAGGCGT
123006 T C A CGCACCAAGGTCTGACCCGTGGGCCTGGCCTGGTCAGGCGT
123006 IS [TC] TGCTGGGGCGGGAAGCGAGAATGTCCCTTTCTCAGGAAACGCCTGACCAGGCCAGGCCCA[TC]GGGTCAGACCTTGGTGCGAATGACATTCTTGTCGGAATCGATGTCGGTCAATGTGTCGTA
123007 I A GGCCCTCGCCCATCTGAGGCAATTT
123007 P A A CGCGCCGAGGATAACAATTATTAGGCAGTAGGGY
123007 P G A ATGACGTGGCAGACGTAACAATTATTAGGCAGTAGGY
123007 T A A TCTTCCCTACTGCCTAATAATTGTTATAATTGCCTCAGATGGGCGAGGGCCAC
123007 T G A TCTTCCCTACTGCCTAATAATTGTTACAATTGCCTCAGATGGGCGAGGGCCAC
123007 IS [AG] GGGAGGGGTTGCACCGGTGGACACAAAACCCACAGTGGCCCTCGCCCATCTGAGCAATT[AG]TAACAATTATTAGGCAGTAGGGAAGAGGCAAATTGTGGGCTGGGCCTCAGAGTTGGGGTG
123009 I A TTTCTTTGGAGCCTGTCTTTCTTTCCATTATCGATCAGCTCATAT
123009 P G A ATGACGTGGCAGACGTGTACATTTGAATTAAGCTCTGY
123009 P C A CGCGCCGAGGCTGTACATTTGAATTAAGCTCTGY
123009 T G A TTTACAGAGCTTAATTCAAATGTACACTATGAGCTGATCGATAATGGAAAGAAAGACAGGCTCCAAAGAAAGA
123009 T C A TTTACAGAGCTTAATTCAAATGTACAGTATGAGCTGATCGATAATGGAAAGAAAGACAGGCTCCAAAGAAAGA

FIGURE 129G



Docket No. 2001P050 Inventor: Rothberg et al.

FIGURE 129G

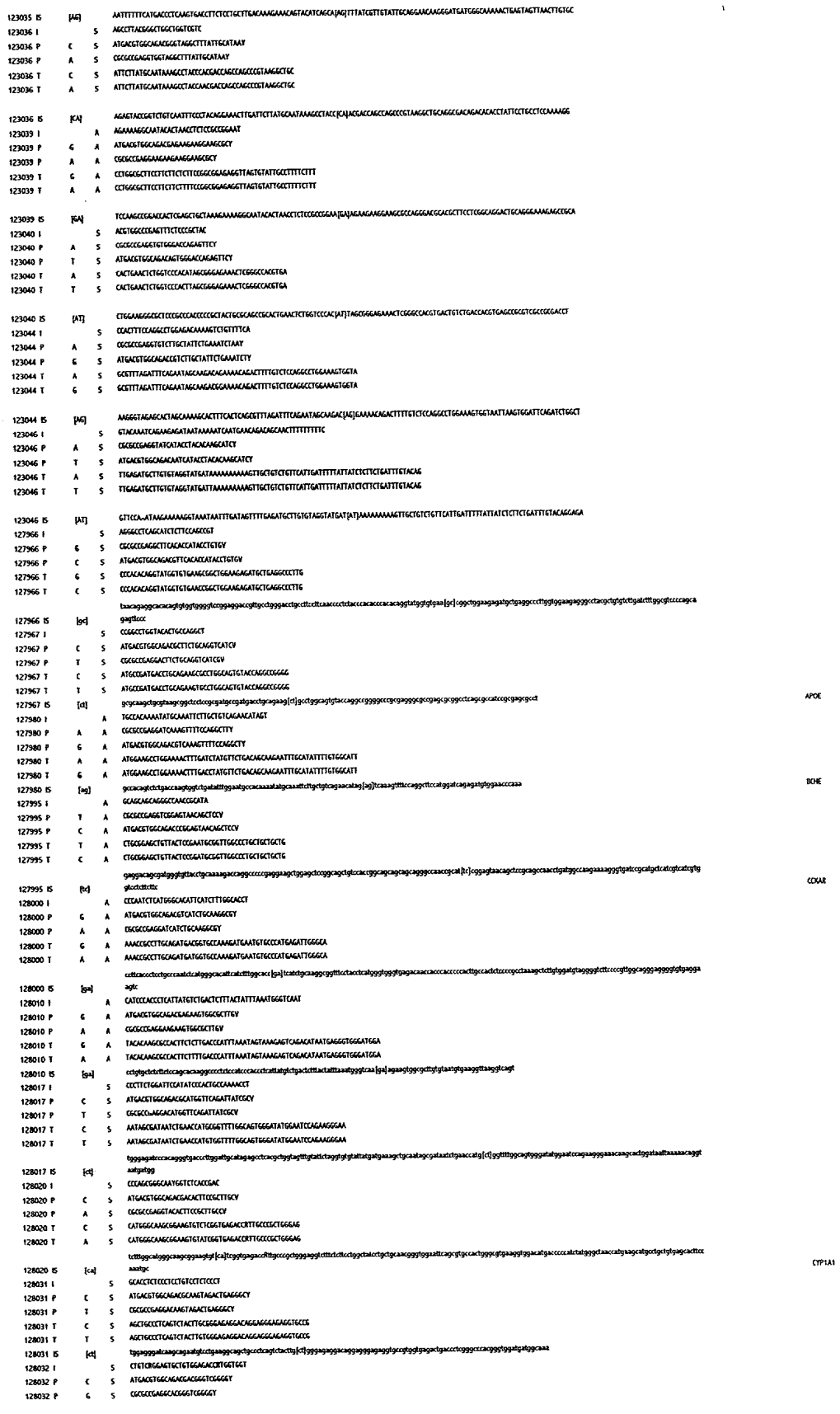


FIGURE 129G

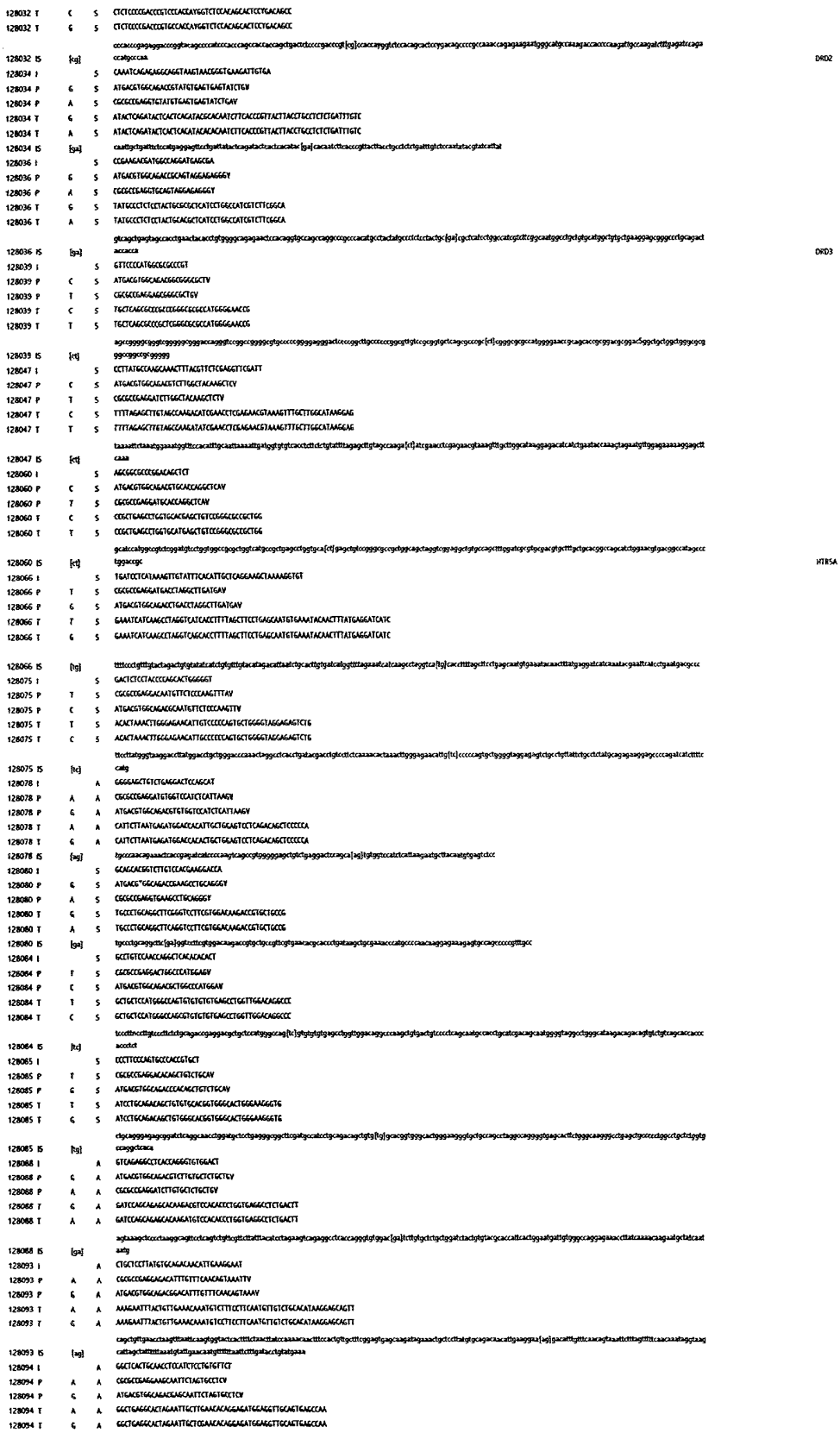


FIGURE 129G

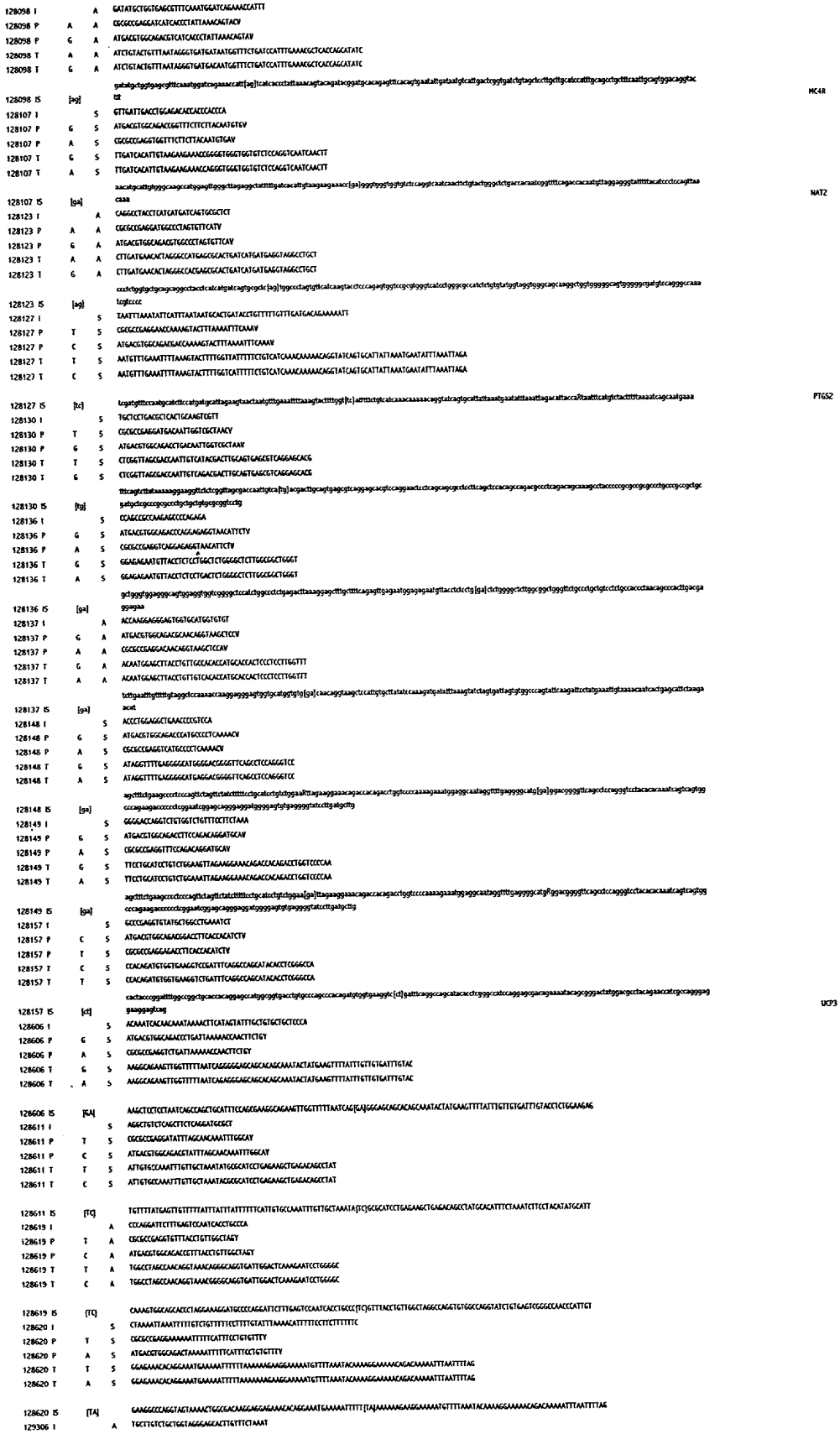
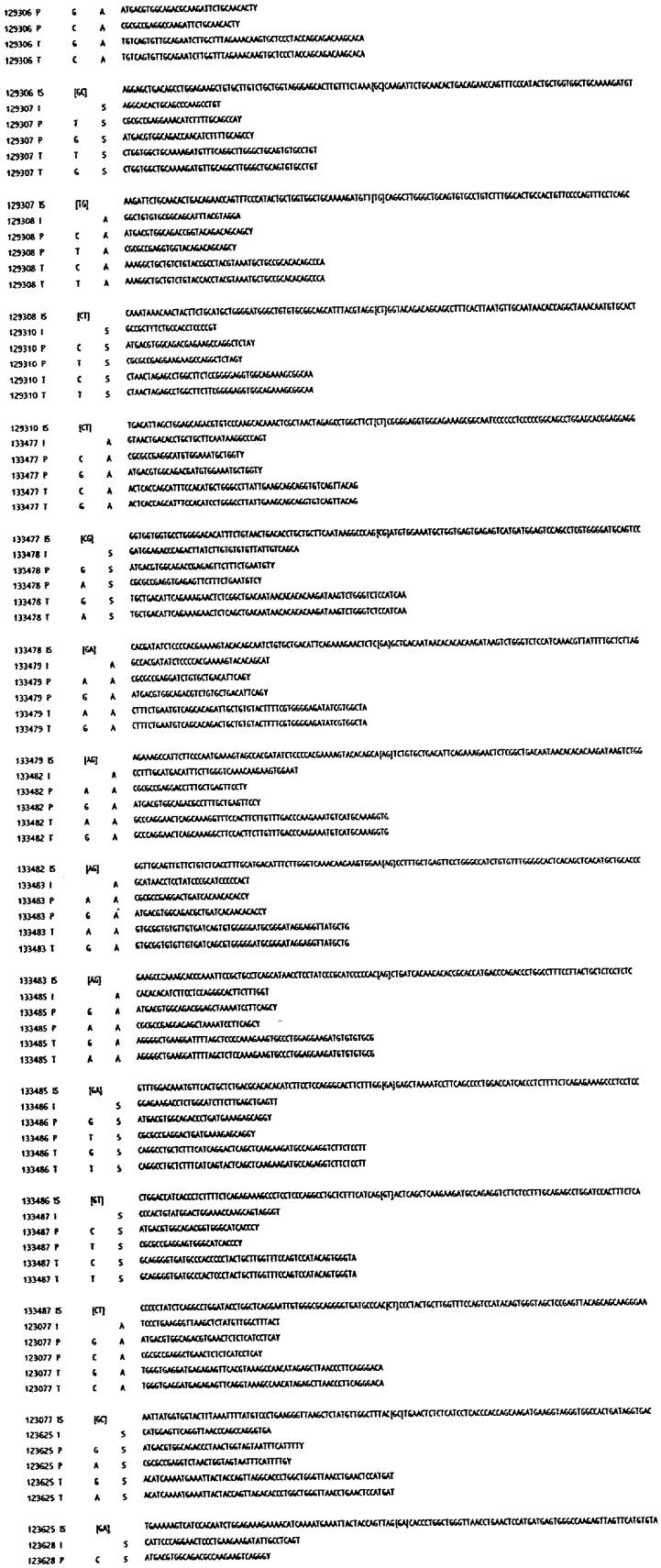
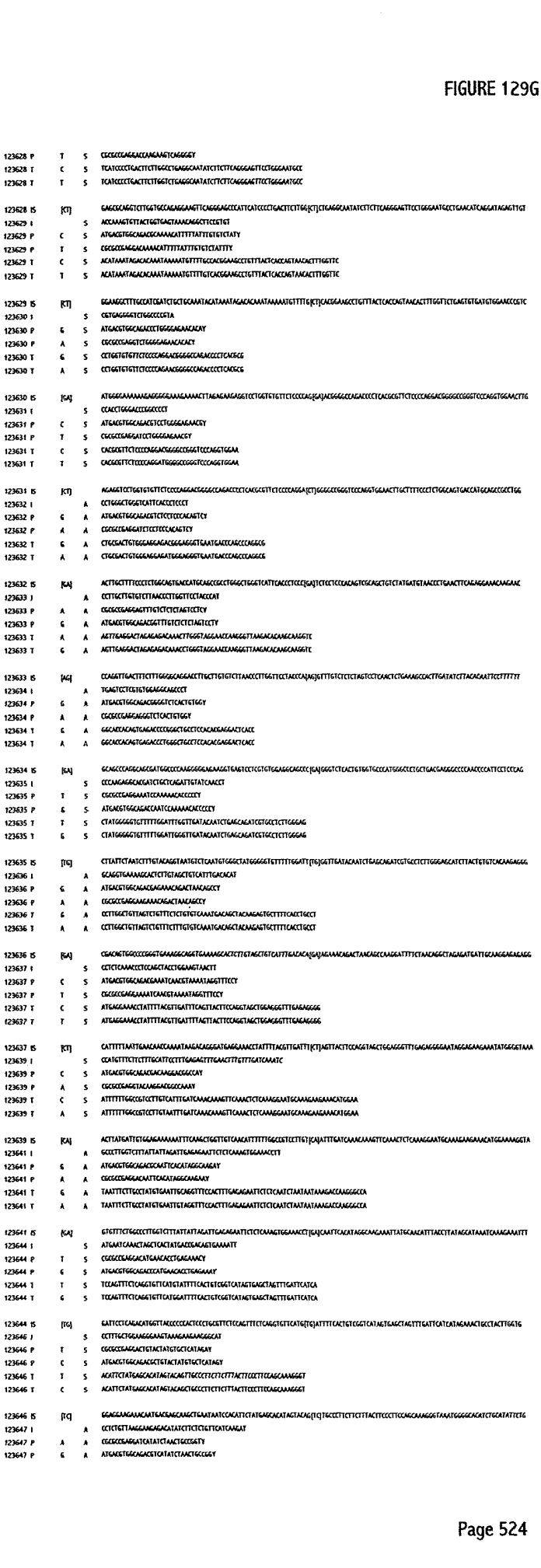


FIGURE 129G


129306 P G A ATGACGTGGCAGACGCAAGATTCTGCAACACTY
129306 P C A CGCGCCGAGGCCAAGATTCTGCAACACTY
129306 T G A TGTCAGTGTTGCAGAATCTTGCTTTAGAAACAAGTGCTCCCTACCAGCAGACAAGCACA
129306 T C A TGTCAGTGTTGCAGAATCTTGCTTTAGAAACAAGTGCTCCCTACCAGCAGACAAGCACA
129306 IS [GC] AGGAGCTGACAGCCTGGAGAAGCTGTGCTTGTCTGCTGGTAGGGAGCACTTGTTTCTAAA[GC]CAAGATTCTGCAACACTGACAGAACCAGTTTCCCATACTGCTGGTGGCTGCAAAAGATGT
129307 I S AGGCACACTGCAGCCCCAGCCCTGT
129307 P T S CGCGCCGAAGGAAACATCTTTTGCAGCCAY
129307 P G S ATGACGTGGCAGACCAACATCTTTTGCAGCCY
129307 T T S CTGGTGGCTGCAAAAGATGTTTCAGGCTTGGGCTGCAGTGTGCCTGT
129307 T G S CTGGTGGCTGCAAAAGATGTTGCAGCCTTGGGCTGCAGTGTGCCTGT
129307 IS [TG] AAGATTCTGCAACACTGACAGAACCAGTTTCCCATACTGCTGGTGGCTGCAAAAGATGTT[TG]CAGGCTTGGGCTGCAGTGTGCCTGTCTTTGGCACTGCCACTGTTCCCAGTTTCCTCAGC
129308 I A GGCTGTGTGCGGCAGCATTTACGTAGGA
129308 P C A ATGACGTGGCAGACCGGTACAGACAGCAGCY
129308 P T A CGGCCCGAAGTGGTACAGACAGCAGCY
129308 T C A AAAGGCTGCTGTCTGTACCGCCTACGTAAATGCTGCCGCACACAGCCCA
129308 T T A AAAGGCTGCTGTCTGTACCACCTACGTAAATGCTGCCGCACACAGCCCA
129308 IS [CT] CAAATAAACAACTACTTCTGCATGCTGGGGATGGGCTGTGTGCGGCAGCATTTACGTAGG[CT]GGTACAGACAGCAGCCTTTCACTTAATGTTGCAATAACACAGGCTAAACAATGTGCACT
129310 I S GCCGCTTTCTGCCACCTCCCCGT
129310 P C S ATGACGTGGCAGACGAGAAGCCAGGCTCTAY
129310 P T S CGCGCCGAGGAAGAAGCCAGGCTCTAGY
129310 T C S CTAACTAGAGCCTGGCTTCTCCGGGGAGGTGGCAGAAAGCGGCAA
129310 T T S CTAACTAGAGCCTGGCTTCTTGGGGAGGTGGCAGAAAGGGGCAA
129310 IS [CT] TGACATTAGCTGGAGCAGACGTGTCCCAAGCACAAACTCGCTAACTAGAGCCTGGCTTCT[CT]CGGGGAGGTGGCAGAAAGCGGCAATCCCCCCTCCCCCGGCAGCCTGGAGCACGGAGGAGG
133477 I A GTAACTGACACCTGCTGCTTCAATAAGGCCCAGT
133477 P C A CGCGCCGAGGCATGTGGAAATGCTGGTY
133477 P G A ATGACGTGGCAGACGATGTGGAAATGCTGGTY
133477 T C A ACTCACAGCATTTCCACATGCTGGGCCTTATTGAAGCAGCAGGTGTCAGTTACAG
133477 T G A ACTCACAGCATTTCCACATCCTGGGCCTTATTGAAGCAGCAGGTGTCAGTTACAG
133477 IS [CG] GGTGGTGGTGCCTGGGGACACATTTCTGTAACTGACACCTGCTGCTTCAATAAGGCCCAG[CG]ATGTGCAAATGCTGGTGAGTGAGAGTCATGATGGAGTCCAGCCTCGTGGGGATGCAGTCC
133478 I S GATGGAGACCCAGACTTATCTTGTGTGTGTTATTGTCAGCA
133478 P G S ATGACGTGGCAGACCGAGAGTTCTTTCTGAATGTY
133478 P A S CGCGCCGAGGTGAGAGTTCTTTCTGAATGTCY
133478 T G S TGCTGACATTCAGAAAGAACTCTCGGCTGACAATAACACACACAAGATAAGTCTGGGTCTCCATCAA
133478 T A S TGCTGACATTCAGAAAGAACTCTCAGCTGACAATAACACACACAAGATAAGTCTGGGTCTCCATCAA
133478 IS [GA] CACGATATCTCCCCACGAAAAGTACACAGCAATCTGTGCTGACATTCAGAAAGAACTCTC[GA]GCTGACAATAACACACACAAGATAAGTCTGGGTCTCCATCAAACGTTATTTTGCTCTTAG
133479 I A GCCACGATATCTCCCCACGAAAAGTACACAGCAT
133479 P A A CGCCCCGAGGATCTGTGCTGACATTCAGY
133479 P G A ATGACGTGGCAGACGTCTGTGCTGACATTCAGY
133479 T A A CTTTCTGAATGTCAGCACAGATTGCTGTGTACTTTTCGTGGGGAGATATCGTGGCTA
133479 T G A CTTTCTGAATGTCAGCACAGACTGCTGTGTACTTTTCGTGGGGAGATATCGTGGCTA
133479 IS [AG] AGAAGCCATTCTTCCCAATGAAAGTAGCCACGATATCTCCCCACGAAAAGTACACAGCA[AG]TCTGTGCTGACATTCAGAAAGAACTCTCGGCTGACAATAACACACACAAGATAAGTCTGG
133482 I A CCTTTGCATGACATTTCTTGGGTCAAACAAGAAGTGGAAT
133482 P A A CGCGCCGAGGACCTTTGCTGAGTTCCTY
133482 P G A ATGACGTGGCAGACGCCTTTGCTGAGTTCCY
133482 T A A GCCCAGGAACTCAGCAAAGGTTTCCACTTCTTGTTTGACCCAAGAAATGTCATGCAAAGGTG
133482 T G A GCCCAGGAACTCAGCAAAGGCTTCCACTTCTTGTTTGACCCAAGAAATGTCATGCAAAGGTG
133482 IS [AG] GGTTGCAGTTGTTCTGTCTCACCTTTGCATGACATTTCTTGGGTCAAACAAGAAGTGGAA[AG]CCTTTGCTGAGTTCCTGGGCCATCTGTGTTTGGGGCACTCACAGCTCACATGCTGCACCC
133483 I A GCATAACCTCCTATCCCGCATCCCCCACT
133483 P A A CGCGCCCAGGACTGATCACAACACACCY
133483 P G A ATGACGTGGCAGACGCTGATCACAACACACCY
133483 T A A GTGCGGGTGTGTTGTGATCAGTGTGGGGGAATGCGGGGATAGGAGGTTATGCTG
133483 T G A GTGCGGTGTGTTGTGATCAGCGTGGGGGAATGCGGGGATAGGAGGTTATGCTG
133483 IS [AG] GAAGCCCAAAGCACCCAAATTCCGCTGCCTCAGCATAACCTCCTATCCCGCATCCCCCAC[AG]CTGATCACAACACACCGCACCATGACCCAGACCCTGGCCTTTCCTTACTGCTCTCCTCTC
133485 I A CACACACATCTTCCTCCAGGGCACTTCTTTGGT
133485 P G A ATGACGTGGCAGACGGAGCTAAAATCCTTCAGCY
133485 P A A CGCGCCGAGGACAGCTAAAATCCTTCAGCY
133485 T G A AGGGGCTGAAGGATTTAGCTCCCAAAGAAGTGCCCTGGAGGAAGATGTGTGTGCG
133485 T A A AGGGGCTGAAGGATTTTAGCTCTCCAAAGAAGTGCCCTGGAGGAAGATGTGTGTGCG
133485 IS [GA] GTTTGGACAAATGTTCACTGCTCTGACGCACACACATCTTCCTCCAGGGCACTTCTTTGG[GA]GAGCTAAAATCCTTCAGCCCCTGGACCATCACCCTCTTTTCTCAGAGAAAGCCCTCCTCC
133486 I S GGAGAAGACCTCTGGCATCTTCTTGAGCTGAGTT
133486 P G S ATGACGTGGCAGACCCTGATGAAAGACAGGY
133486 P T S CGCGCCCAGGACTGATGAAAGACAGGY
133486 T G S CAGGCCTGCTCTTTCATCAGCACTCAGCTCAAGAAGATGCCACAGGTCTTCTCCTT
133486 T T S CAGGCCTGCTCTTTCATCAGTACTCAGCTCAAGAAGATGCCACAGGTCTTCTCCTT
133486 IS [GT] CTGGACCATCACCCTCTTTTCTCAGAGAAAGCCCTCCTCCCAGGCCTGCTCTTTCATCAG[GT]ACTCAGCTCAAGAAGATGCCACAGAGTCTTCTCCTTTGCAGAGCCTGGATCCACTTTCTCA
133487 I S CCCACTGTATGGACTGGAAACCAAGCAGTAGGGT
133487 P C S ATGACGTGGCAGACGGTGGGCATCACCCY
133487 P T S CGCGCCGAGGAGTGGGCATCACCCY
133487 T C S GCAGGGGTGATGCCCACCCCCTACTGCTTGGTTTCCAGTCCATACAGTGGGTA
133487 T T S GCAGGGGTGATGCCCACTCCCTACTGCTTGGTTTCCAGTCCATACAGTGGGTA
133487 IS [CT] CCCCCTATCTCAGGCCTGGATACCTGGCTCAGGAATTGTGGGCGCAGGGGTGATGCCCAC[CT]CCCTACTGCTTGGTTTCCAGTCCATACAGTGGGTAGCTCCGAGTTACAGCAGCAAGGGAA
123077 I A TCCCTGAAGGGTAAGCTCTATGTTGGCTTTACT
123077 P G A ATGACGTGGCAGACGTGAACTCTCTCATCCTCAY
123077 P C A CGCGCCGAGGCTGAACTCTCTCATCCTCAY
123077 T G A TGGGTGAGGATGAGAGAGTTCAGGTAAAGCCAACATAGAGCTTAACCCTTCAGGGACA
123077 T C A TGGGTGAGGATGAGAGAGTTCAGGTAAAGCCAACATAGAGCTTAACCCTCAGGGACA
123077 IS [GC] AATTATGGTGGTACTTTAAATTTTATGTCCCTGAAGGGTTAAGCTCTATGTTGGCTTTAC[GC]TGAACTCTCTCATCCTCACCCACCAGCAAGATGAAGGTAGGGTGGCCACTGATAGGTGAC
123625 I S CATGGAGTTCAGGTTAACCCAGCCAGGGTGA
123625 P G S ATGACGTGGCAGACCCTAACTGGTAGTAATTTCATTTTY
123625 P A S CGCGCCGAGGTCTAACTGGTAGTAATTTCATTTTGY
123625 T G S ACATCAAAATGAAATTACTACCAGTTAGGCACCCTGGCTGGGTTAACCTGAACTCCATGAT
123625 T A S ACATCAAAATGAAATTACTACCAGTTAGACACCCTGGCTGGGTTAACCTGAACTCCATGAT
123625 IS [GA] TGAAAAGTCATCCACAATCTGGAGAAAGAAAACATCAAAATGAAATTACTACCAGTTAG[GA]CACCCTGGCTGGGTTAACCTGAACTCCATGATGAGTGGGCCAAGAGTTAGTTCATGTGTA
123628 I S CATTCCCAGGAACTCCCTGAAGAAGATATTGCCTCAGT
123628 P C S ATGACGTGGCAGACGCCAAGAAGTCAGGGY



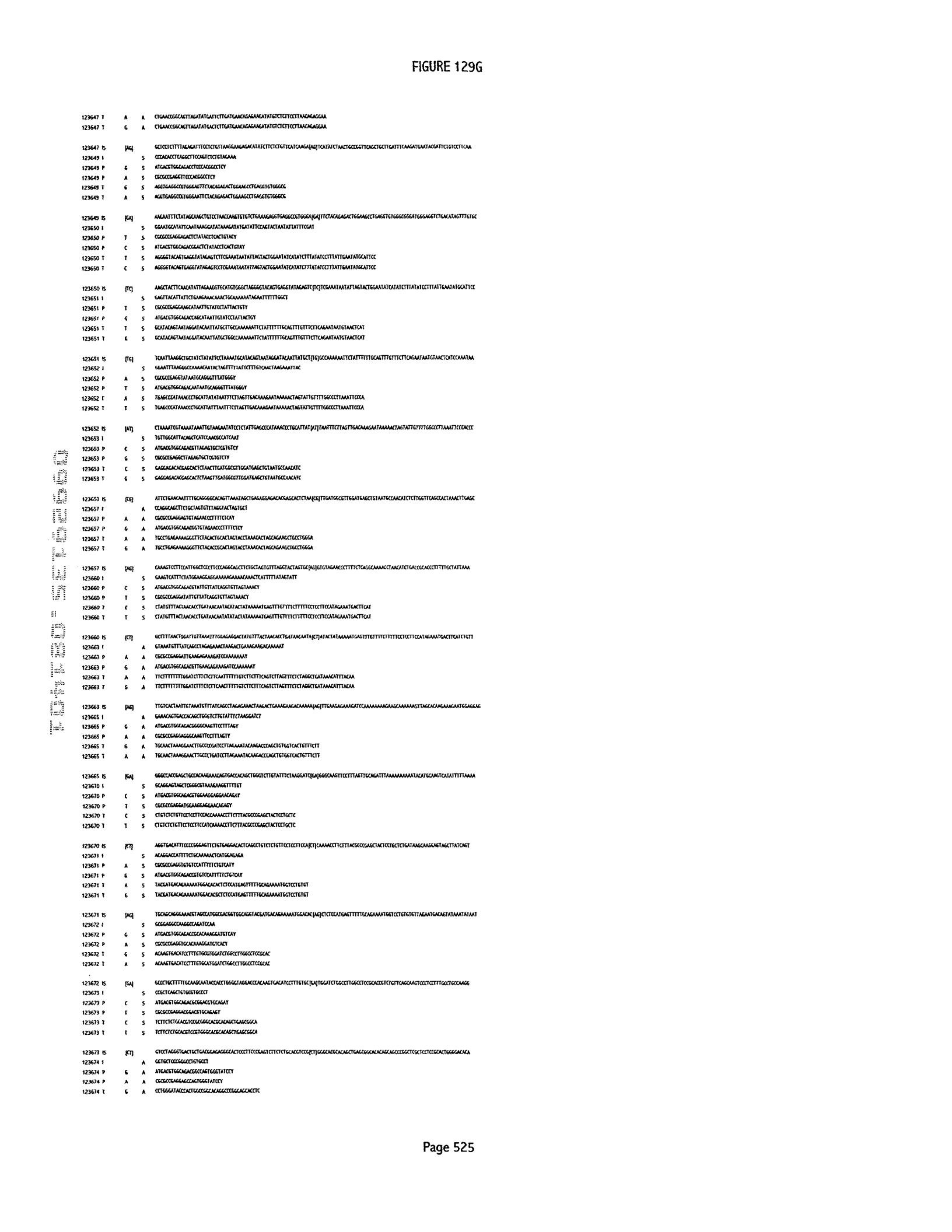
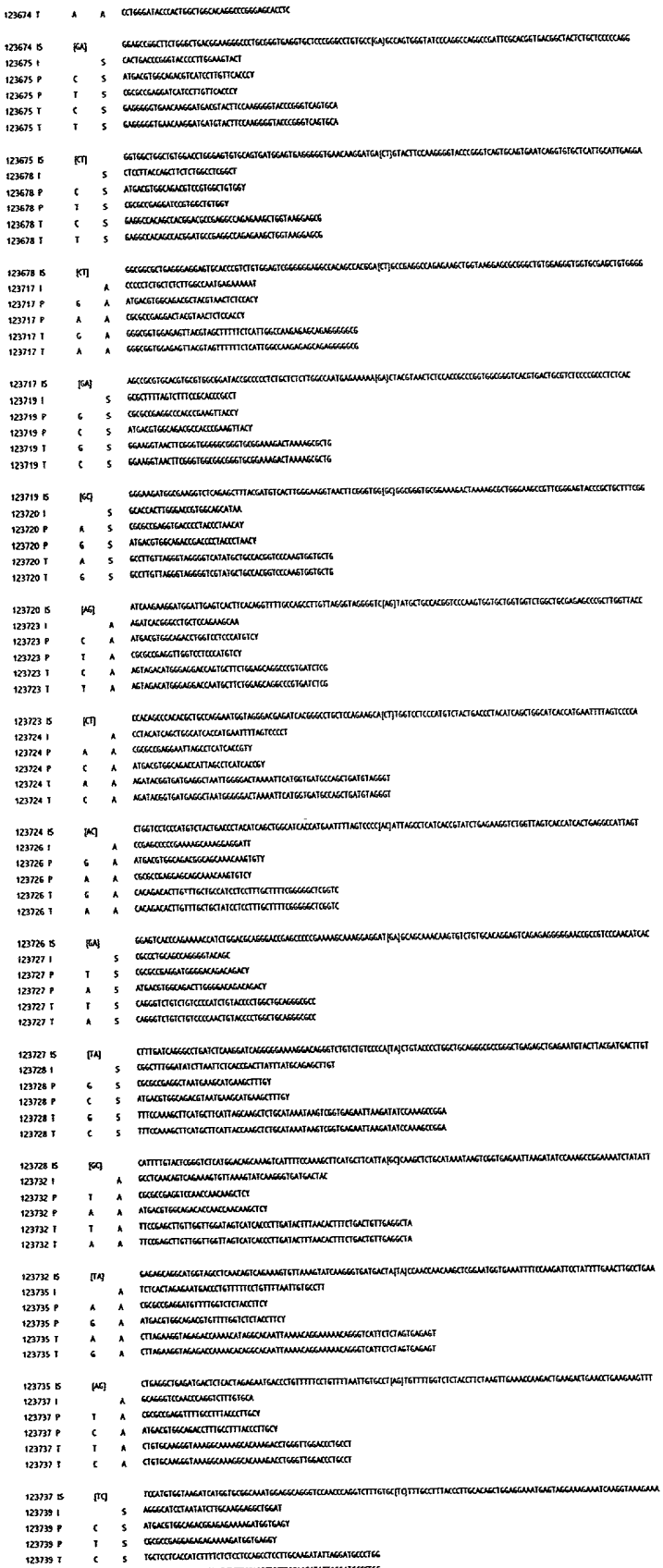
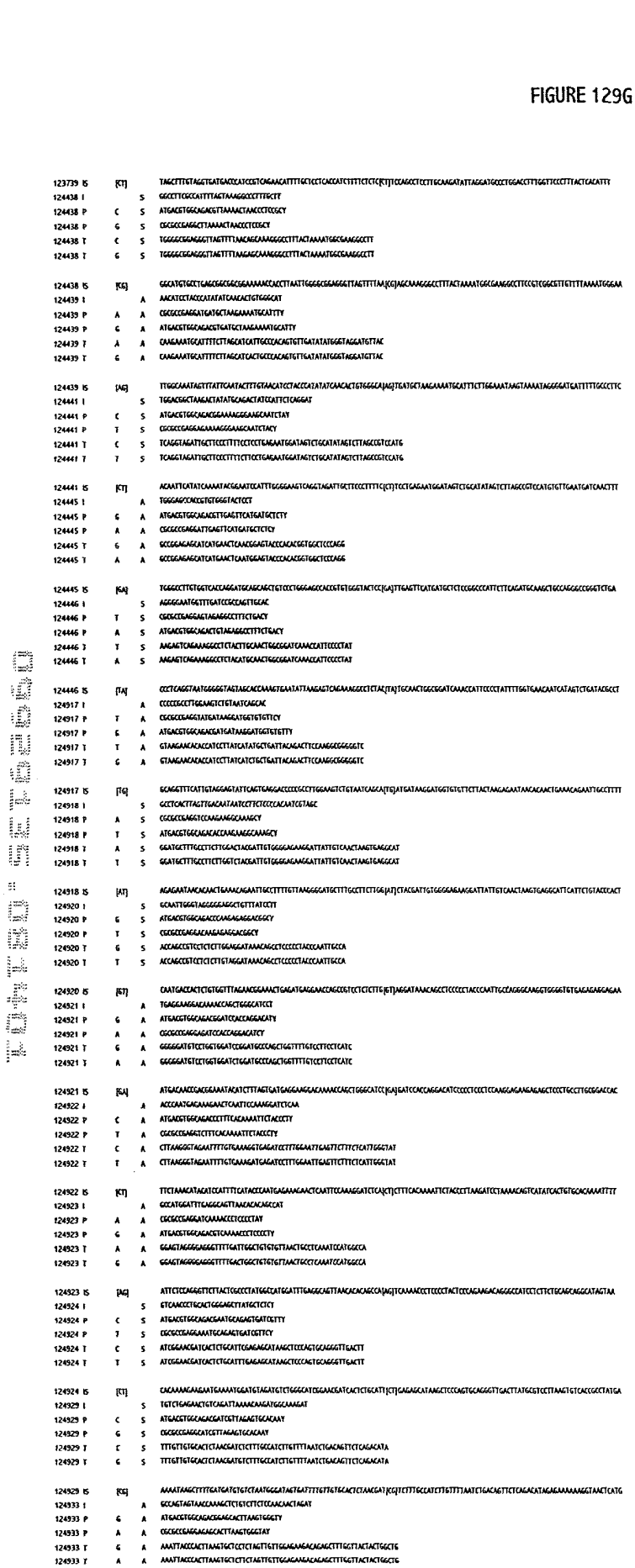
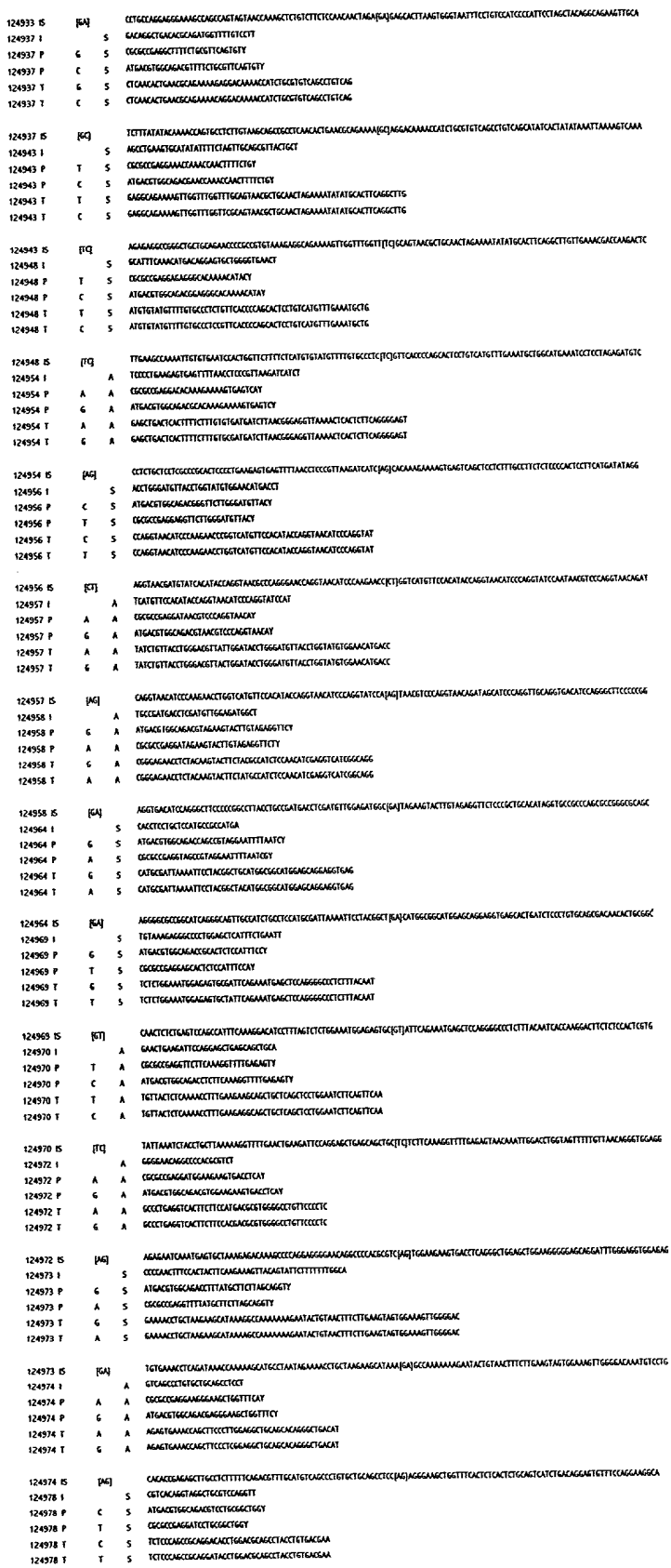


FIGURE 129G



UNDER PROTECTION OF THE PATENT LAWS





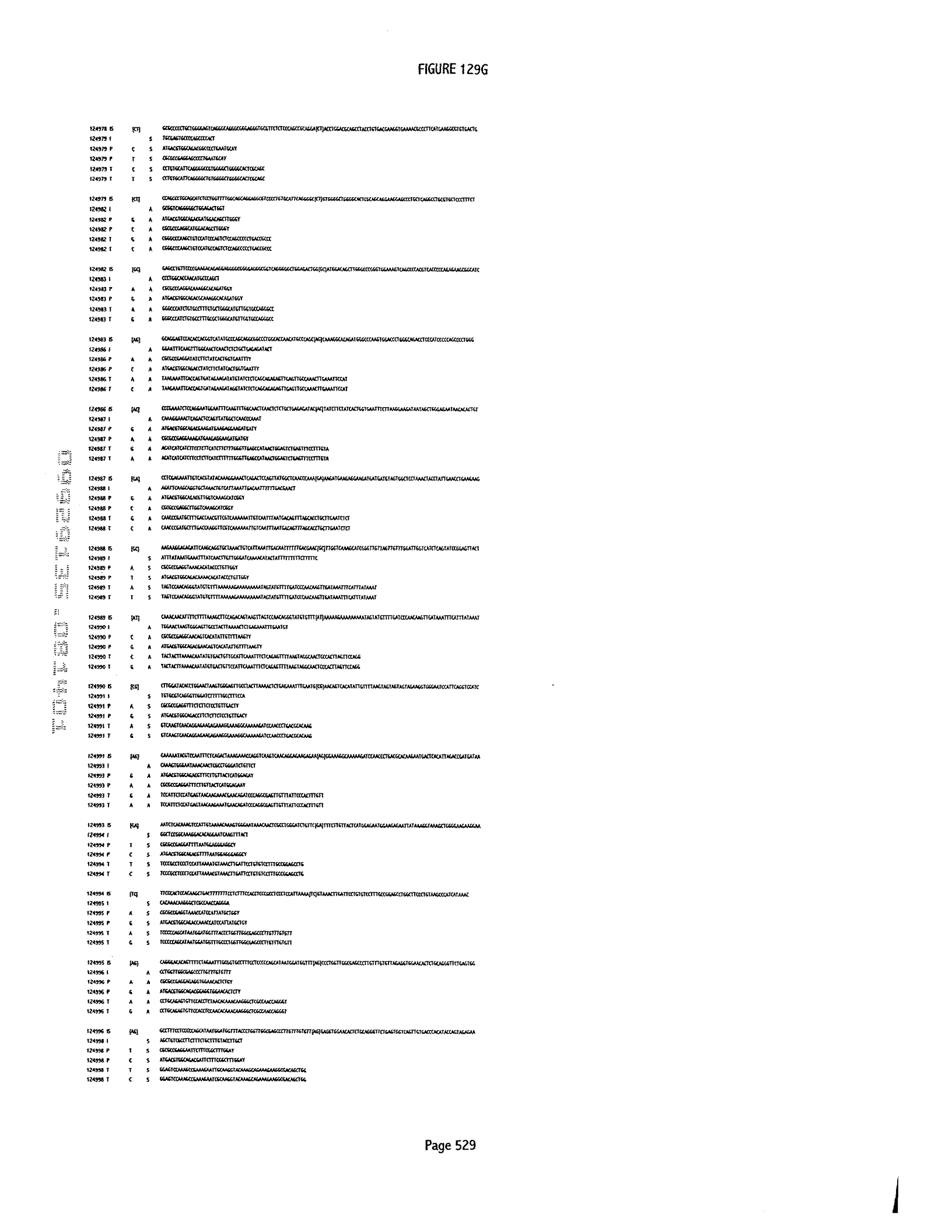


FIGURE 129G

